

20000309.qrp v01\_n755.qrl.20000309

Date: Thu, 9 Mar 2000 19:03:10 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1755

### QRP-L Digest 1755

Topics covered in this issue include:

- 1) [65235] Re: QRPer going to Dublin, Ireland  
by "Francis Callahan" <colcal@srv.net>
- 2) [65236] First Foothill Fleamarket 3-11  
by Jeff Furman <jfurman@ocs.net>
- 3) [65237] Center insulator ??  
by cd25d@rhaphsodysails.com (Bill Slater)
- 4) [65238] Re: QRPTTF  
by Jeff <fantbb@yahoo.com>
- 5) [65239] Re:Center insulator ??  
by Ed Loranger <we6w@qsl.net>
- 6) [65240] Fox in the thicket!  
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- 7) [65241] QRP-TECH....  
by "Stuart Satrun" <kc8lah@hotmail.com>
- 8) [65242] Re: Center insulator ??  
by Wb8siw@aol.com
- 9) [65243] Re: Manhattan style ???????  
by "George Heron N2APB" <n2apb@erols.com>
- 10) [65244] KITS: 38 Special Kit For Sale  
by "Kevin E. Gray" <k8su@clover.net>
- 11) [65245] MFJ 9030  
by "Kevin E. Gray" <k8su@clover.net>
- 12) [65246] OHR 100 A 30 METER KIT unbuilt complete with manual.  
by "Kevin E. Gray" <k8su@clover.net>
- 13) [65247] FS: MODIFIED Cubic Incher  
by "Kevin E. Gray" <k8su@clover.net>
- 14) [65248] FS: Oner Kit  
by "Kevin E. Gray" <k8su@clover.net>
- 15) [65249] FS: Kanga VFO Kit still in package  
by "Kevin E. Gray" <k8su@clover.net>
- 16) [65250] FS: Embedded Research Tiny CMOS Keyer  
by "Kevin E. Gray" <k8su@clover.net>
- 17) [65251] FS: Small WOnder Labs 6M - 15 M kit  
by "Kevin E. Gray" <k8su@clover.net>
- 18) [65252] re: Sierra Mods  
by "Pete DeWolf" <kb5hrs@hotmail.com>
- 19) [65253] RE: (OT?) O-Scope Technical Question..

- by Nick Kennedy <nkennedy@tcainternet.com>
- 20) [65254] Correction type mistake FS GM-15 Trans. KIT  
by "Kevin E. Gray" <k8su@clover.net>
- 21) [65255] RE: Books. Basic Reading List  
by Nick Kennedy <nkennedy@tcainternet.com>
- 22) [65256] DXCC Y2K award progress, de N4UY  
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
- 23) [65257] SMD construction articles in QST on ARRL web site  
by neil <neil@aaade.com>
- 24) [65258] WWV clock on clearance @ RS  
by The Boices <kw1nd@arrl.net>
- 25) [65259] Re: QRPTTF  
by Rod Johnson <ka7you@juno.com>
- 26) [65260] RE:NC20 Plug  
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 27) [65261] SNAP kit schematic, construction guide & photos posted  
by "George Heron N2APB" <n2apb@erols.com>
- 28) [65262] Powermite Owners Group accepting members now.  
by jmarran@juno.com
- 29) [65263] FOX: N5IB log (08 March Z)  
by n5ib@juno.com
- 30) [65264] sgc-2020  
by "Walt Amos" <k8cv@worldspy.net>
- 31) [65265] Re: SNAP kit schematic, construction guide & photos posted  
by "Michael L. Evans" <mlevans@mail.utexas.edu>
- 32) [65266] Re: SMK-1? , ARRL 2K HANDBOOK CDROM  
by Dave Fifield <fifield@pacbell.net>
- 33) [65267] Re: Micro beacon still on 7.040.....\*NO\*  
by RangerSF5@aol.com
- 34) [65268] RS Freq. Counter on Sale, Comments ?  
by Gary Newberry <Gdn1@rocketmail.com>
- 35) [65269] Re: Staged ads.  
by Bill Lazure <n2tpa@juno.com>
- 36) [65270] Re: SNAP kit schematic, construction guide & photos posted  
by "George Heron N2APB" <n2apb@erols.com>
- 37) [65271] RE: MFJ 9030  
by Karl Kanalz <KKanalz@excel.com>
- 38) [65272] Re: Folded Dipole wire spacing.  
by S LYON <sslyon@worldnet.att.net>
- 39) [65273] Re: Center insulator ??  
by "Scott Hotchkiss" <w4pj@bellsouth.net>
- 40) [65274] RE: RS Freq. Counter on Sale, Comments ?  
by Rich Mulvey <mulveyr@iname.com>
- 41) [65275] Nosey SMK-1 Questions  
by "Jim, WD9EYB" <wd9eyb@butler.indiana.net>
- 42) [65276] RE: Manhattan style ???????  
by "AI2Q Alex" <ai2q@ispchannel.com>
- 43) [65277] Electronic Reference books FS

by "Ken Simpson" <W8EK@fdt.net>  
44) [65278] OP: Too close to the FOX?  
by "Pete (N9SSA)" <n9ssa@arrl.net>  
45) [65279] Rainbow Tuner Kit For Sale  
by "Hinsdale, Andy J." <AHinsdale@spectrapoint.com>  
46) [65280] FW: Error Condition Re: RE: N5IB log (08 March Z)  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
47) [65281] HB: PIN Diodes  
by "Dieter \ (Diz\ ) Gentzow" <wb8qyy@cinci.rr.com>  
48) [65282] (OT?) O-Scope Technical Question..  
by "Phinizy, William" <wphinizy@filenet.com>  
49) [65283] FW: Rainbow Tuner Kit For Sale  
by "Hinsdale, Andy J." <AHinsdale@spectrapoint.com>  
50) [65284] AR QRP 80M net results  
by Jim Hale <kj5tf@yahoo.com>  
51) [65285] FS: TT ARGO 556 with PS  
by "Mark Adams" <k2qo@hotmail.com>  
52) [65286] Re: OP: Too close to the FOX?  
by Monte Stark <ku7y@dri.edu>  
53) [65287] Re: OP: Too close to the FOX?  
by "George T. Baker" <w5yr@att.net>  
54) [65288] Re: FS: Small WOrder Labs 6M - 15 M kit  
by "D Howard" <dhoward@sympatico.ca>  
55) [65289] MOMMAFOX : Too close to the FOX?  
by "Paul R. Valko" <prvalko@oakland.edu>  
56) [65290] Equipment carryiing case for K2 & other stuff  
by "Rod, N0RC" <n0rc@qsl.net>  
57) [65291] XTALS, PCB stock needed.  
by "Rod, N0RC" <n0rc@qsl.net>  
58) [65292] Re: MOMMAFOX : Too close to the FOX?  
by k1vp@lawson-philpot.com  
59) [65293] Prototyping with SMD components  
by Bill Jones <kd7s@psnw.com>  
60) [65294] Re: Prototyping with SMD components  
by Bruce Muscolino <w6toy@erols.com>  
61) [65295] Re: NorCal: SMK-1 kits orders top 100 in 24 hours!!!!!!!!!!!!!!  
by Richard Matthews <prm@hiwaay.net>  
62) [65296] For Joe, in LA.  
by Ed Loranger <we6w@qsl.net>  
63) [65297] Re: Nosey SMK-1 Questions  
by Dave Fifield <fifield@pacbell.net>  
64) [65298] QST give QRP a push.  
by Ed Loranger <we6w@qsl.net>  
65) [65299] Re: MOMMAFOX : Too close to the FOX?  
by Richard Matthews <prm@hiwaay.net>  
66) [65300] [Fwd: Prototyping with SMD components]  
by John Kuklewicz <kukl@cybrquest.com>  
67) [65301] OP: "Real" QRP...

by "Paul R. Valko" <prvalko@oakland.edu>  
68) [65302] NorCal: SMK-1 Prototyping  
by "Doug Hendricks" <ki6ds@hotmail.com>  
69) [65303] RE: MOMMAFOX : Too close to the FOX?  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
70) [65304] OP: Hound Rigs [was: RE: MOMMAFOX : Too close to the FOX?]  
by "Pete (N9SSA)" <n9ssa@arrl.net>  
71) [65305] Re: MOMMAFOX : Too close to the FOX?  
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>  
72) [65306] Re: OP: Too close to the FOX?  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>  
73) [65307] CASE DIMENSIONS: Re: Equipment carrying case for K2 & other stuff  
by "Rod, N0RC" <n0rc@qsl.net>  
74) [65308] Re: Prototyping with SMD components  
by "Bob Tellefsen" <n6wg@earthlink.net>  
75) [65309] Re: OP: Hound Rigs [was: RE: MOMMAFOX : Too close to the FOX?]  
by Paul Womble <pwomble1@tampabay.rr.com>  
76) [65310] Oak Hills Classic 2040 for sale  
by arrowhead1@characterlink.net (Ted Danchi)  
77) [65311] QRP and Pay Pal  
by QRP <qrp@email.com>  
78) [65312] QRP still? FOX:Crispy critter!  
by Ed Loranger <we6w@qsl.net>  
79) [65313] ArkieCon Pre-registration now open !!  
by "Jay Bromley" <w5jay@alltel.net>  
80) [65314] Re: ArkieCon Pre-registration now open !!  
by "Jay Bromley" <w5jay@alltel.net>  
81) [65315] Update on FS post  
by "David Maliniak" <dmaliniak@vertical.net>  
82) [65316] RE: ArkieCon Pre-registration now open !!  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
83) [65317] RE: OP: Too close to the FOX?  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
84) [65318] FS - JPS NIR -12  
by M Goins <mgoins@usa.net>  
85) [65319] Re: NorCal: SMK-1 kits orders top 100 in 24 hours!!!!!!!!!!!!!!  
by "Terres Family" <terresfm@ncia.net>  
86) [65320] RE: QST give QRP a push.  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
87) [65321] Prototyping with surface mount parts  
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>  
88) [65322] CW Crystals  
by af852@rgfn.epcc.edu (William R Colbert)  
89) [65323] Re: Prototyping with SMD components  
by "John Moriarity" <k6qq@hdo.net>  
90) [65324] FS - Poqet Plus  
by M Goins <mgoins@usa.net>  
91) [65325] For trade - QRP project waiting to happen

- by "Dan Wanchic" <wa8vzq@cloudnet.com>
- 92) [65326] Electrical question. Please post answer to list  
by RangerSF5@aol.com
- 93) [65327] Re: Electrical question. Please post answer to list  
by "George T. Baker" <w5yr@att.net>
- 94) [65328] Oh, oh, where is the TRUST .....  
by "Walt Amos" <k8cv@worldspy.net>
- 95) [65329] Got a Virus  
by w2xn@juno.com
- 96) [65330] A "Real QRP Station"  
by hamjoel@juno.com
- 97) [65331] Re: [Elecraft] 2 Watt ?  
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 98) [65332] HW8 Meter Needed...??  
by "Andy GM0NWI" <Gm0nwi@tesco.net>
- 99) [65333] Update: FS. NIR -12 and Poqet Plus  
by M Goins <mgoins@usa.net>
- 100) [65334] AL7FS in Hawaii  
by Dean W Manley <kh6b@juno.com>
- 101) [65335] Too Close to the Fox?  
by tom palmer <n1tp@worldnet.att.net>
- 102) [65336] Names  
by Bob Hightower <nk7m@extremezone.com>
- 103) [65337] First Ever QRP  
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
- 104) [65338] Re: NorCal: SMK-1 Prototyping  
by Rick Sealey <rsealey@InfoAve.Net>
- 105) [65339] Re: RS Freq. Counter on Sale, Comments ?  
by Bob Nielsen <nielsen@primenet.com>
- 106) [65340] SMK-1  
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
- 107) [65341] RE: SMK-1  
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 108) [65342] RE: Center insulator ??  
by Nick Kennedy <nkennedy@tcainternet.com>

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Date: Wed, 8 Mar 2000 17:52:06 -0700  
From: "Francis Callahan" <colcal@srv.net>  
To: <g4wif@btinternet.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [65235] Re: QRPper going to Dublin, Ireland  
Message-ID: <003701bf8961\$b1a24ce0\$24df070c@callahan>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I second that Haven't had a decent beer since I left Scotland72 Cal KF7ET misplaced Vermonter in Idaho

----- Original Message -----

From: "Tony Fishpool" <g4wif@btinternet.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, March 08, 2000 1:30 AM

Subject: Re: QRPper going to Dublin, Ireland

> Dave,

> Try the Guinness. In fact, drink several pints. You won't get one like it  
> anywhere else in the world!

>

> 72/3

> Tony - G4WIF/K4WIF

>

> ----- Original Message -----

> From: Dave Redfearn <n4elm@home.com>

>

> .<snip>

> > I'm leaving tomorrow for a buisness trip to Dublin, Ireland

> > I will not have much time wander around, but I'd like to hear if there

> > are any activities that a ham with a 1/2 a day or so of free time might

> > find interesting.

> <snip>

>

-----  
Date: Wed, 8 Mar 2000 17:08:40 -0800 (PST)

From: Jeff Furman <jfurman@ocs.net>

To: vintage@best.com

Cc: qrp-l@lehigh.edu

Subject: [65236] First Foothill Fleamarket 3-11

Message-ID: <Pine.LNX.4.04.10003081700360.13713-1000000@ocs.net>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Bob, I have been told it starts in March, So I'll be there around 6:30AM  
this Saturday. You probably know to take at least \$2.00 in quarters for  
the parking fee. It wouldn't surprise me if they raised the fee, however.  
73, Jeff KD6MNP

-----

Date: Wed, 8 Mar 2000 19:15:04 -0600  
From: cd25d@rhapsodysails.com (Bill Slater)  
To: "qrp-1" <qrp-1@Lehigh.EDU>  
Subject: [65237] Center insulator ??  
Message-ID: <003501bf8964\$e7272360\$7e76130c@willies>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Can I use sch 40 PVC for a center insulator for a dipole?

73's

Bill

-----  
Date: Wed, 8 Mar 2000 17:14:53 -0800 (PST)  
From: Jeff <fantbb@yahoo.com>  
To: qrp qrp <qrp-1@lehigh.edu>  
Subject: [65238] Re: QRPTTF  
Message-ID: <20000309011453.27963.qmail@web116.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

--- Dean W Manley <kh6b@juno.com> wrote:  
> We plan to be at the "border" of Hawaii and the Pacific Ocean.  
> Actually, we plan to be at our 8th Annual Moku Ola Island  
> DXpedition,  
> which is a beach park on an island in Hilo Bay, Hawaii.  
> It coincides with the QRP TTF event. The Hawaii QRP Club  
> with use the club call AL0HA again this year on Saturday, April 29.

I sure hope QTTF will be on April 29th. There is no mention of this  
years QTTF on the NorCal web page. In fact it has been strangely quiet  
concerning this incredible event and what it will be about this year.

Will the theme of this years QTTF be "Stealthy Run to the Border?"  
Will we hide in the bushes with our QRP rigs and keys held to the  
ready as we await the official word?  
I can just see it now. It's 8am PST on April 29th, hordes of QRPers  
are out in the fields. Everyone is looking at each other thinking is  
this it? Are we out here for nothing? Is the contest on?

Then booming out of the ether comes that famous call. CQ CQ QTTF de  
KI6DS KI6DS. Sighs of relief all around along as we reach for our  
keys. The sun breaks out, birds start singing and life is good again.  
QTTF is on once again!

72!

Jeff

=====

Jeff Jones  
AB6MB  
NorCal QRP Club #65, QRP-L #1780, ARCI 10071  
Radical FIST Member 6798  
Voicemail/Fax 1-888-Excite2 ext 925-439-2514  
ICQ 62450117

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Wed, 08 Mar 2000 17:26:58 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>, cd25d@rhapsodysails.com  
Subject: [65239] Re:Center insulator ??  
Message-ID: <38C6FDE2.59DCF64C@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bill, I think PVC is fine for QRP and current fed  
antennas. QRO with voltage fed antennas may  
cause the PVC to burn in some document reports  
I've read. See Les Moxon's book and the section  
regarding PVC feedline insulators and voltage nodes : )

My favorite insulator for the resonant antenna at  
QRP levels is the curved section of a plastic  
coathanger. Just clip the inverted "U" off with  
some cutters and drill two holes in the lower  
arm on each side. Run your feedline into one  
hole, out and back in the second hole. This anchors  
the feedline. just to each side of the center top section  
you drill 2 holes. The antenna wire comes in from  
the top, wrap once around the insulator and down again  
from the top. Solder each arm to its feedline wire and



you are all set. Real nifty. And at the very top of the inverted "U" you can arrange for a poly rope or string to hang it from a pole or tree. Mine has been in the weather for nearly 2.5 years and is looking brand new. I also use short pieces of the plastic coathanger straight sections as insulators.

The coat hanger I use is tubular with a small airspace inside. It is round and about 3/8 inch in diameter. Not the rigid plastic types that are flat and break to to their stiffness. These ones are very flexible and available at Most "K-Mart, Wallgreens etc" type stores.

Hope this helps. -Ed we6w

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
Call Tobor, The 8th man, to the rescue!

-----  
Date: Wed, 08 Mar 2000 08:05:54 -0600  
From: tmyers@academicplanet.com  
To: Post to List QRP-L <qrp-l@Lehigh.edu>  
Subject: [65240] Fox in the thicket!  
Message-ID: <38C65E42.1696F9A@academicplanet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'm the fox on 3/10/2000. The time has been changed (forced change) to 0200 UTC.

The fox is located between the "Big Thicket NP" and the big city "Houston" in the hamlet of Spring, TX. The rig is a K2 @ 5W with a ladder line fed dipole 102' long at 30 ft. and the second antenna is a Butternut vertical mounted on the house roof. The plan is to switch antennas to change the pattenen some and broaden the field.

This fox will be on near the QRP frequency of 7.040 Mhz (probably up a bit) and do a nocturnal "fun run" from the city to the thicket and the emphasis will be on the FUN part.

See you in my log.  
KQ5U

Terry

-----  
Date: Thu, 09 Mar 2000 01:41:41 GMT  
From: "Stuart Satrun" <kc8lah@hotmail.com>  
To: qrp-1@Lehigh.EDU  
Subject: [65241] QRP-TECH....  
Message-ID: <20000309014141.69865.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Hi gang  
Has anyone heard from the qrp-tech this week. I'm signed up and  
received a couple of missives (on another channel)..but this week..  
nada...I've cut the iron back to idle...but (horrors !) have I lost  
contact with Arizona ?

Sign me  
Sleepless in St. Clair Shores.  
73  
stu satrun kw8k  
SOC#207 (Big promotion for me)

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Wed, 8 Mar 2000 20:55:44 EST  
From: Wb8siw@aol.com  
To: cd25d@rhapsodysails.com, qrp-1@lehigh.edu  
Subject: [65242] Re: Center insulator ??  
Message-ID: <18.178f194.25f85ea0@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 03/08/2000 8:16:21 PM Eastern Standard Time,  
cd25d@rhapsodysails.com writes:

<< Can I use sch 40 PVC for a center insulator for a dipole?

73's

Bill >>

Yes! At High Frequencies it should serve fine as a center insulator.

-----  
Date: Wed, 8 Mar 2000 20:56:25 -0500  
From: "George Heron N2APB" <n2apb@erols.com>  
To: "QRP-L" <qrp-l@lehigh.edu>, <K2PQ@aol.com>, "NJQRP" <NJQRP@njqrp.org>  
Subject: [65243] Re: Manhattan style ???????  
Message-ID: <000e01bf896a\$b01ea400\$5b59accf@ire.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

"What is Manhattan-style" you ask, Frank? Here's an excerpt from the SNAP kit manual (given to all those registered for Atlanticon ) describing Manhattane-style construction. Also, Chuck Adams, K7QO has an outstanding feature tutorial article addressing this very topic in the coming QRP Homebrewer winter issue in subscribers' mailboxes next week.

Enjoy!

72, George N2APB  
n2apb@amsat.org

=====  
Manhattan-style construction is a way of building up a circuit in a "free-form" manner on top of a piece of unetched copper-clad pc board. This is the same type of board you might get at Radio Shack when getting ready to create a pc board from scratch. Double-sided copper-clad boards are also readily available at hamfests and as scap material from friendly circuit board fab houses . they typically have lots of scrap pieces laying around and they are often willing to sell it to hams for a very small price.

The copper-clad pc board serves as a base on which components like resistors, capacitors, ICs inductors are mounted in order to create a functioning circuit. Little pads are glued in place on the base board to serve as standoffs for the circuit nodes needing to be isolated from the base. Components are soldered to these pads, as are interconnecting wires, IC sockets, off-board wiring, and so on.

The standoff pads are really quite integral to the whole concept of Manhattan-style construction. In fact they are a good part of the reason for the naming convention! When components are placed on the base board and supported by these standoff pads, the resulting circuit board looks like a

view of the Manhattan (NY) roadways and skyscrapers. As you will see in this SNAP transmitter kit, components are often arranged in a rectilinear manner on the base board, with the components positioned either up-down or left-right, and closely following the orientation of the original schematic. Granted, you have to have an abstract mind's eye to see this all as the streets of Manhattan's financial district; but my young daughter, for one, readily calls these circuits I make "little cities".

By the way, Manhattan-style construction inherently provides a low electrical noise system. The copper-clad base board serves as a big and convenient ground plane for the circuit. By having an everywhere-present ground for biasing resistors, bypass capacitors, and other components to connect to at each functional block, unwanted ground loops are minimized and ultra-quiet receivers and amplifiers are easily achieved.

Manhattan-style construction techniques are easy to debug because homebrewers often spread out their component layouts and arrange those components to look like the schematic layout. Thus it is easy to probe around on the board when measuring signals and voltages in the circuits, and it's easy to locate the components because the layout looks just like the schematic you're using as a guide!

The Manhattan-style construction technique is a heartbeat away from the "ugly-style" construction technique described for many years in the ARRL handbooks and in publications featuring such experts as Wes Hayward, W7ZOI, the late Doug DeMaw W1FB, and other giants in ham radio. They have found that, when experimenting and developing individual projects, by not using commercially-produced pc boards their circuits and projects can be made much smaller, much quieter and as a result much better performing. Here are some excellent references for Manhattan-style construction techniques:

1) QRPp for Winter 1998 - QRPp is the journal of the NorCal QRP Club, published quarterly, and featuring many QRP and homebrew projects for subscribers. The Winter '98 issue was completely devoted to documenting the design and construction of Jim Kortge's (K8IQY) "2N2/40" transceiver project. This is a high-performance 40m transceiver using only 2N2222A transistors as active devices and constructed entirely Manhattan-style. This issue of QRPp is an outstanding reference for design and construction of these types of projects. (For QRPp subscription information, contact Doug Hendricks, KI6DS at [ki6ds@hotmail.com](mailto:ki6ds@hotmail.com) , or write to Doug at 862 Frank Ave, Dos Palos, CA 93620.)

2) QRP Homebrewer for Winter 2000 - QHB is the journal of the New Jersey QRP Club, published quarterly and featuring many projects for beginner-oriented QRP homebrewers. The major theme of the Winter 2000 issue is "Manhattan-style Construction", and an outstanding major article by Chuck Adams, K7Q0 overviews the nitty-gritty detail of this construction

technique, replete with recommended tools, cleaning and fabrication techniques, and loads of tips 'n techniques. Part 2 of the article series (appearing in QHB for Spring 2000) will feature construction of a full NN1G transceiver built Manhattan-style! (For QHB subscription information, contact George Heron, N2APB at n2apb@amsat.org, or write to George at 2419 Feather Mae Court, Forest Hill, MD 21050.)

----- Original Message -----

Ok I built a Heathkit GR-64 shortwave receiver when I was 12 years old. CIRCA 1964. (Still have it) Modified commercial gear for ATV when I got my ham ticket around 1974/75. Worked on, co-owned , modified several repeaters.

But what the heck is Manhattan style construction?????????????????

Frank..... K2PQ

-----  
Date: Wed, 8 Mar 2000 21:22:38 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <grp-1@Lehigh.EDU>  
Subject: [65244] KITS: 38 Special Kit For Sale  
Message-ID: <002301bf896e\$57942e00\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FOR SALE: Built NorCal "38 Special" 30M xcvr kit that works F.B.

Manual included.

Shipped \$75

Thanks

Kevin

K8SU

-----  
Date: Wed, 8 Mar 2000 21:23:19 -0500  
From: "Kevin E. Gray" <k8su@clover.net>

To: <qrp-1@Lehigh.EDU>  
Subject: [65245] MFJ 9030  
Message-ID: <002501bf896e\$6feeebc0\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For Sale MFJ 9030

\$107 plus shipping

Thanks,

KEvin

k8su

-----  
Date: Wed, 8 Mar 2000 21:29:42 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65246] OHR 100 A 30 METER KIT unbuilt complete with manual.  
Message-ID: <002701bf896f\$53fc92e0\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Selling a NEW CONDITION 30 METER unbuilt kit. Complete.

Offers over \$125

Thanks,

Kevin

k8su

-----  
Date: Wed, 8 Mar 2000 21:31:59 -0500

From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65247] FS: MODIFIED Cubic Incher  
Message-ID: <002901bf896f\$a592cde0\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Taking offers not sure of the price. complete part list for the cubic  
incher with paperwork.

thanks,

Kevin

-----  
Date: Wed, 8 Mar 2000 21:33:36 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65248] FS: Oner Kit  
Message-ID: <002b01bf896f\$df749d40\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For Sale: Oner Kit complete with all paperwork

thanks,

Kevin

k8su

-----  
Date: Wed, 8 Mar 2000 21:35:01 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65249] FS: Kanga VFO Kit still in package

Message-ID: <002d01bf8970\$121a01e0\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FS: Kango VF0 still in package.

Kevin

k8su

-----  
Date: Wed, 8 Mar 2000 21:37:09 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65250] FS: Embedded Research Tiny CMOS Keyer  
Message-ID: <002f01bf8970\$5e8b6780\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Selling new in the pack KIT

Thanks,

Kevin

k8su

-----  
Date: Wed, 8 Mar 2000 21:39:36 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65251] FS: Small W0nder Labs 6M - 15 M kit  
Message-ID: <003101bf8970\$bff04400\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit



FS: Compete kit new still in wrapper.

thanks,

Kevin

k8su

-----  
Date: Thu, 09 Mar 2000 02:37:14 GMT  
From: "Pete DeWolf" <kb5hrs@hotmail.com>  
To: qrp-l@Lehigh.EDU  
Subject: [65252] re: Sierra Mods  
Message-ID: <20000309023714.41663.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

There is a collection of emails, primarily concerned with power output, as collected by N2APB at:

<http://www.njqrp.org/data/sierra.html>

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Wed, 8 Mar 2000 20:47:30 -0600  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "'wphinizy@filenet.com'" <wphinizy@filenet.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65253] RE: (OT?) O-Scope Technical Question..  
Message-ID: <01BF893F.85ECD920.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

No, just ignore the DC portion. Look at the peak-to-peak value of the sine wave without regard to whether it's shifted up or down by the DC part. (In fact, you can switch the scope to AC and/or use the vertical position control to center the waveform where you want it without regard to the DC shift.

Take half of the p-p reading to get peak. Take 0.707 times that to get RMS. Just as you did below, except forget about adding the 3 volts.

72,

Nick, WA5BDU

-----Original Message-----

From: Phinizy, William [SMTP:wphinizy@filenet.com]

..If I am too lazy to make an RF probe and want to measure an RF voltage using a scope, should I consider the DC component in the calculation as well?

Example: I measure the signal on a pin of an IC using a 1x probe (assuming it doesn't load the circuit down. ha, ha) and find that the total deflection from bottom to top is 4 divisions on the 1 volt-per-division in the DC setting. That is the peak of the sine wave is four divisions above the original position of the trace with no signal on it. Assume the sine wave is one division by itself. Is the RMS voltage:

$$(0.5 \times 0.707 \times 1) + 3 \text{ VDC}$$

Many thanks for the input.

Bill, k6whp

-----  
Date: Wed, 8 Mar 2000 22:03:11 -0500  
From: "Kevin E. Gray" <k8su@clover.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65254] Correction type mistake FS GM-15 Trans. KIT  
Message-ID: <004901bf8974\$01aeae60\$a396fea9@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

FS: Still in the original box. GM-15 Transceiver KIT with cabinet.

Thanks,

Kevin

k8su

-----  
Date: Wed, 8 Mar 2000 20:56:56 -0600  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "'hoglund@wfu.edu'" <hoglund@wfu.edu>, Low Power Amateur Radio Discussion  
<qrp-1@Lehigh.EDU>  
Subject: [65255] RE: Books. Basic Reading List  
Message-ID: <01BF8940.D74B1EC0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Well, you've gotta start with the ARRL handbook.  
Then Solid State Design for the Radio Amateur.

After that ... it starts becoming opinion. (The above are dogma.)  
One or more QRP books by W1FB Doug DeMaw and/or ARRL press. (QRP Power?)  
I'm kinda liking an old ARRL electronics data book, edited by Doug Demaw W1CER,  
that I found at a hamfest.  
Get some back issues from NORCAL and QRP ARCI publications. Lots of good stuff.  
And NJQRP's new quarterly.  
Get Paul's data book. (I don't have it yet.) (Paul Harden)  
I also don't have the current ARRL Antenna Handbook (right title?), but need to  
get it.  
When you get tired of formulas, read a Kinky Friedman mystery.

72 and good reading,

Nick, WA5BDU  
in ARKANSAS [EM35]  
SOC #36

-----Original Message-----

From: Kenneth Hoglund [SMTP:hoglund@wfu.edu]

Seems there's been a flurry of offers of places to find out-of-print  
books and suggestions of where to find particular information. Any  
suggestions out there for the "Basic QRP Library" of 'gotta' reads?

Ken Hoglund  
KG4FGC

-----  
Date: Wed, 08 Mar 2000 22:16:45 -0500  
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>  
To: QRP-L <qrp-l@lehigh.edu>  
Subject: [65256] DXCC Y2K award progress, de N4UY  
Message-ID: <38C7179C.3E4DF55A@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I've made some progress toward the Y2K DXCC certificate.

83 total countries worked since 1/1/2000 -- 84 if you count the good old USA. Of the 83, 79 were worked QRP -- 2 of those QRPP. 3 of the 79 were 2-way QRP. 8 of the 79 have been confirmed -- including Mali and the Gambia.

I have a hard time believing I've got so many countries in such a short time -- I'm going to try to get them all confirmed and frame them so when the guys at the local club say "life is too short for QRP", I can show them the confirmations and tell them to take a few months off from QRO and get their DXCC. :-)) Of course, the real goal is the ARCI DXCC-QRP award with 100 cards from 2000.

Now I've got to find 21 more QRP countries, and find the time to send out all these QSL cards.

BTW the QRP rig is a Yaesu FT-757 at 5 watts or less (had one QSO with the 757 turned down to 500 milliwatts) to a sloppy 10/15/20m dipole stapled to the rafters in my crawl space attic. Also had a couple Qs on my GM-10 at 700 milliwatts. Most of the QSOs have been on 10m. Man, do I like 10m (and sunspots)!!!

73/72,

Jake -- N4UY  
Vienna, VA  
(Wash DC suburbs)

-----  
Date: Wed, 08 Mar 2000 19:18:21 -0800

From: neil <neil@aade.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65257] SMD construction articles in QST on ARRL web site  
Message-ID: <38C717FD.6999C07@aade.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

<http://www.arrl.org/tis/info/surface.html>

--

Neil  
<http://www.aade.com>  
<mailto:neil@aade.com>  
Almost All Digital Electronics  
1412 Elm St. SE  
Auburn, WA 98092  
253-351-9316

-----

Date: Wed, 08 Mar 2000 22:14:43 -0800  
From: The Boices <kw1nd@arrl.net>  
To: qrp-1@Lehigh.EDU  
Subject: [65258] WWV clock on clearance @ RS  
Message-ID: <4.3.0.20000308221308.00a77c00@mail.megalink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I noticed the normally \$50 WWV clock at Radio Shack was now on clearance for \$20 the other day while in one of the stores. I have one, and it works like a champ. No 24-hour display, tho.

Standard disclaimers.....

72,

Mike Boice, KW1ND  
New Gloucester, Maine FN43uw

-----

Date: Wed, 08 Mar 2000 22:27:22 EST  
From: Rod Johnson <ka7you@juno.com>  
To: fantbb@yahoo.com

Cc: qrp-1@Lehigh.EDU  
Subject: [65259] Re: QRPTTF  
Message-ID: <20000308.194015.4479.20.ka7you@juno.com>

What a GREAT idea! Don't announce the theme till the night before the event. Then it will be a real test of ingenuity. None of those months long plans to go awry due to the boss deciding it was time to freshen up the office, or finish an overdue report. Just head for the field at the drop of a hat. How about something like having to be near a body of fresh water that you can't jump across, but you could toss a rock across.

That eliminates almost all mountain ridges, and all large lakes, the Arizona desert, Texas plains-well you guessed it. I could stay in my back yard next to the neighbors mosquito swamp. :>)

Yes, I'm serious-regular 'field day' is way too structured now.

7 3,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.

80M thru 10M with K2 s/n268 and other fine QRP rigs.

VHF thru 1296 MHz-higher bands pending

ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 SOC#184 and others

On Wed, 8 Mar 2000 17:14:53 -0800 (PST) Jeff <fantbb@yahoo.com> writes:

>--- Dean W Manley <kh6b@juno.com> wrote:

>> We plan to be at the "border" of Hawaii and the Pacific Ocean.

>> Actually, we plan to be at our 8th Annual Moku Ola Island

>> DXpedition,

>> which is a beach park on an island in Hilo Bay, Hawaii.

>> It coincides with the QRP TTF event. The Hawaii QRP Club

>> will use the club call AL0HA again this year on Saturday, April 29.

>

>I sure hope QTTF will be on April 29th. There is no mention of this

>years QTTF on the NorCal web page. In fact it has been strangely quiet

>concerning this incredible event and what it will be about this year.

>

>

>Will the theme of this years QTTF be "Stealthy Run to the Border?"

>Will we hide in the bushes with our QRP rigs and keys held to the

>ready as we await the official word?

>I can just see it now. It's 8am PST on April 29th, hordes of QRPers

>are out in the fields. Everyone is looking at each other thinking is

>this it? Are we out here for nothing? Is the contest on?

>Then booming out of the ether comes that famous call. CQ CQ QTTF de

>KI6DS KI6DS. Sighs of relief all around along as we reach for our

>keys. The sun breaks out, birds start singing and life is good again.

>QTTF is on once again!

>

>72!

>

>Jeff  
>  
>=====  
>Jeff Jones  
>AB6MB  
>NorCal QRP Club #65, QRP-L #1780, ARCI 10071  
>Radical FIST Member 6798  
>Voicemail/Fax 1-888-Excite2 ext 925-439-2514  
>ICQ 62450117  
>-----  
>Do You Yahoo!?  
>Talk to your friends online with Yahoo! Messenger.  
><http://im.yahoo.com>

-----  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Wed, 08 Mar 2000 22:40:22 -0500  
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>  
To: edl@pacbell.net, "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>  
Subject: [65260] RE:NC20 Plug  
Message-ID: <38C71D26.CEA96219@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I converted mine to a Molex style plug. I use this as y stadard on all my 12 volt rigs for interchangablity. It also provides a solid contact at all times.

Hmmm... I haven't got to the point on my K2 where I assemble the back panel yet but I know I'm going to have to give this some thought.

--

+++++

T.J. "SKIP" AREY N2EI e-mail [tjarey@home.com](mailto:tjarey@home.com)

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

-----  
Date: Wed, 8 Mar 2000 22:45:38 -0500  
From: "George Heron N2APB" <n2apb@erols.com>  
To: "QRP-L" <qrp-l@lehigh.edu>, "NJQRP" <NJQRP@njqrp.org>  
Subject: [65261] SNAP kit schematic, construction guide & photos posted  
Message-ID: <004d01bf8979\$f05650e0\$5b59accf@ire.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Okay, now *everyone* can warm up their soldering irons and put together their very own SNAP QRPp transmitter. It's a fabulous learning exercise with a simple circuit designed by Chuck Adams, K7QO that demonstrates so many of the principles we read about every day here on the mail lists. *And*, this is a nice way to ease into that crazy homebrewing technique called Manhattan-style construction.

Those registered for Atlanticon have already been given their SNAP Kits as part of their Atlanticon Information Package, but this is the first time everyone else has had the opportunity to see the SNAP circuit and construction details.

==> Links to the schematic, layout and construction guide, and example photos are all contained at the top of the SNAP web page at <http://www.njqrp.org/atlanticon/snap.html>

Remember that you can build your SNAP transmitter and submit it to the Building Contest being held Saturday evening of the Atlanticon weekend (March 25th), even if you are not attending Atlanticon yourself! Just send it along with someone who *is* attending (or mail it to me) and we can enter your creation for you by proxy. WHY would you want to do this, you ask? Well, the winner of this building contest will get a brand-new RH40 transceiver kit from Red Hot Radio!

The SNAP transmitters are being judged on 3 factors:

- 1) construction quality (i.e., Manhattan-style beauty);
- 2) power output (using the *identical* value components as shown in the schematic); and
- 3) frequency stability (how far it drifts after applying standard 9V battery power).

This is a fun exercise, with the possibility of getting some real tangible results. Like a cool prize. And like a circuit that will become the basis for an ongoing project after Atlanticon. (Details to be disclosed at the QRP weekend.)



We'll be posting some further "rules", guidelines, FAQ's, tips and techniques real soon. In fact, the first thing to come along is an in-depth discussion from circuit designer Chuck Adams, K7QO ... stay tuned!

And meanwhile, start preparing your Manhattan-style board and pads for your SNAP!

72, George N2APB  
n2apb@amsat.org

-----  
Date: Wed, 8 Mar 2000 22:54:11 -0500  
From: jmarran@juno.com  
To: QRP-L@lehigh.edu  
Subject: [65262] Powermite Owners Group accepting members now.  
Message-ID: <20000308.225432.-432269.11.JMarran@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Hello friends! Enjoying the spring-like weather?

Just wanted to pass along a note of interest to those with Powermites that the Powermite Owners Group is accepting members now for induction. There are no dues or membership fees whatsoever, but rather a common interest in the PM rigs. Also, as interest/membership increases, a CW net is proposed.

Reply to me if interested.

Thank you and God Bless....

John Marranca, Jr  
KB2HSH  
Amherst NY

Attention Ten-Tec Powermite owners: Powermite Owners Group website:  
<http://homestead.juno.com/jmarran/KB2HSH.html>

-----  
Date: Wed, 08 Mar 2000 23:23:34 EST

From: n5ib@juno.com  
To: qrp-1@Lehigh.edu, giamman@rouge.phys.lsu.edu  
Subject: [65263] FOX: N5IB log (08 March Z)  
Message-ID: <20000308.221549.4511.3.N5IB@juno.com>

Here's the final preliminary log, or preliminary final log, for Tuesday night

Last call for corrections, all ashore who's going ashore...

0200	K5LN	559	TX	BILL	1794	
0202	K5RV	559	LA	BRIAN	324	
0204	N1LN	589	TX	BRUCE	2049	
0205	K5VUU	599	TX	ED	1343	
0205	N5EN	559	TX	STEVE	2071	
0207	K5JHP	559	TX	BILL	825	
0208	AF5Z	579	TX	BOB	984	
0209	W0JOE	559	MO	JOE	1901	
0210	N1TP	599	FL	TOM	1317	
0211	N0DT	559	MO	DAN	1004	
0212	N0EA	559	MO	WAYNE	1058	
0214	N5TW	559	TX	TOM	1474	
0214	W5YR	559	TX	GEORGE	1373	
0215	N0EHW	559	MO	TIM	2047	
0216	K5AAR	559	OK	DON	1512	
0217	N4ROA	349	VA	DAN	970	
0218	AF4PS	579	FL	MAC	704	
0220	W5SB	559	TX	BILL	1279	
0221	K5DW	559	TX	DON	2083	
0222	KI0G	559	TX	BOB	239	
0224	K10J	559	TX	OJ	732	
0225	N5IW	579	TX	DAVE	1718	
0226	K5ZTY	559	TX	BILL	473	
0228	KK5LD	559	TX	DAN	2052	
0230	N5LU	559	OK	BILL	2009	
0231	W0CH	559	MO	DAVE	618	
0232	K0EVZ	559	ND	DOC	861	
0233	KD5CMN	559	TX	MIKE	1328	
0234	WS4S	529	TN	CONRAD	993	
0238	AE4Y	559	GA	KENT	1844	
0241	NK7M	229	AZ	BOB	271	
0243	K5OI	559	NM	TIM	73	
0245	N8IE	449	OH	DAN	1404	
0246	K4AL	449	KY	LEN	5W	
0255	KB9IUA	339	IL	KEVIN	2384	
0259	K0CO	449	TX	JACK	619	
0300	NQ7X	559	AZ	FLOYD	343	
0303	K5UX	559	LA	MIKE	1818	

0305 KQ5U 559 TX TERRY 1604 (1603?)  
 0306 N9AW 339 WI JERRY 1271  
 0309 K8CV 229 MI WALT 935  
 0311 AF4PP 339 GA CHUCK 1785  
 0317 KS4L 559 AL RANDY 468  
 0319 N9SSA 599 MI PETE 2109  
 0322 KI0II 549 CO RON 928  
 0323 W1XT 559 AZ BOB 262  
 0325 NC90 559 IL SKIP 913  
 0331 W2XN 559 FL FRED 1728  
 0332 W8RU 559 MI RON 188  
 0333 N5GJQ 559 LA MIKE 5W  
 0335 AJ4Y 449 FL PAUL 1795  
 0338 K5FNW 539 TX DAVE 4W (Joe?)  
 0339 N0AR 559 MN SCOTT 1455  
 0340 NV4V 339 KY PETE 1721  
 0348 WB0HQV229 MO JIM 2100  
 0354 AE2T 229 NY AL 1664

-----  
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-----  
 Date: Thu, 9 Mar 2000 04:51:41 -0000

From: "Walt Amos" <k8cv@worldspy.net>

To: "Qrp-l Posts" <qrp-l@lehigh.edu>

Subject: [65264] sgc-2020

Message-ID: <003101bf8983\$2aef2520\$9cb76520@waltk8cv>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Well after Dons glowing report .....

There was a used at

<http://www.universal-radio.com>

in there used equipment list for around \$490 or so!

Might be an early one though?

Walt K8CV Royal Oak, Michigan " May the SOC be with you! "

-----  
Date: Wed, 08 Mar 2000 22:52:38 -0600  
From: "Michael L. Evans" <mlevans@mail.utexas.edu>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65265] Re: SNAP kit schematic, construction guide & photos posted  
Message-ID: <3.0.5.32.20000308225238.00828e30@mail.utexas.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Looking at the web site. This is neat and I would like to try this as a first time project.

Question: Really bad at reading schematics. What is keying this thing? Would a keyer be in series with the battery and pull everything to ground? Or is this just a smaller circuit designed to be used in bigger projects?

72,  
Mike KD5AAD  
Georgetown, Tx

At 10:45 PM 3/8/00 -0500, you wrote:

>Okay, now \*everyone\* can warm up their soldering irons and put together  
>their very own SNAP QRPP transmitter. It's a fabulous learning exercise  
>with a simple circuit designed by Chuck Adams, K7QO that demonstrates so  
>many of the principles we read about every day here on the mail lists.  
>\*And\*, this is a nice way to ease into that crazy homebrewing technique  
>called Manhattan-style construction.

>

>Those registered for Atlanticon have already been given their SNAP Kits as  
>part of their Atlanticon Information Package, but this is the first time  
>everyone else has had the opportunity to see the SNAP circuit and  
>construction details.

>

>==> Links to the schematic, layout and construction guide, and example  
>photos are all contained at the top of the SNAP web page at  
><http://www.njqrp.org/atlanticon/snap.html>

>

>Remember that you can build your SNAP transmitter and submit it to the  
>Building Contest being held Saturday evening of the Atlanticon weekend  
>(March 25th), even if you are not attending Atlanticon yourself! Just send  
>it along with someone who \*is\* attending (or mail it to me) and we can enter  
>your creation for you by proxy. WHY would you want to do this, you ask?  
>Well, the winner of this building contest will get a brand-new RH40

>transceiver kit from Red Hot Radio!  
>  
>The SNAP transmitters are being judged on 3 factors:  
>1) construction quality (i.e., Manhattan-style beauty);  
>2) power output (using the \*identical\* value components as shown in the  
>schematic); and  
>3) frequency stability (how far it drifts after applying standard 9V battery  
>power).  
>  
>This is a fun exercise, with the possibility of getting some real tangible  
>results. Like a cool prize. And like a circuit that will become the basis  
>for an ongoing project after Atlanticon. (Details to be disclosed at the  
>QRP weekend.)  
>  
>We'll be posting some further "rules", guidelines, FAQ's, tips and  
>techniques real soon. In fact, the first thing to come along is an in-depth  
>discussion from circuit designer Chuck Adams, K7QO ... stay tuned!  
>  
>And meanwhile, start preparing your Manhattan-style board and pads for your  
>SNAP!  
>  
>72, George N2APB  
> n2apb@amsat.org  
>  
>  
>

-----  
Date: Wed, 08 Mar 2000 21:38:02 -0800  
From: Dave Fifield <fifield@pacbell.net>  
To: montp@synacom.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65266] Re: SMK-1? , ARRL 2K HANDBOOK CDROM  
Message-ID: <009c01bf8989\$a2b72660\$0100a8c0@pacbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Mont,

The SMK-1 should run on 9V fine - the power output will be reduced  
and the frequency coverage of the VXO's may be a little less than  
running at 13.8V, but it should work just fine still.

Cheers,  
Dave Fifield, AD6A

----- Original Message -----

From: Mont Pierce, KM6WT <montp@synacom.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, March 08, 2000 1:27 PM  
Subject: SMK-1? , ARRL 2K HANDBOOK CDROM

>  
> Will the SMK-1 run on a 9v battery? Wonder if I can make a loop antenna  
> that I can wear like a belt. Then I'd be all set to go mobile on foot.  
hi hi

-----  
Date: Thu, 9 Mar 2000 02:15:02 EST  
From: RangerSF5@aol.com  
To: cdcobb@lonestar.rcclub.org, qrp-1@lehigh.edu  
Subject: [65267] Re: Micro beacon still on 7.040.....\*NO\*  
Message-ID: <20.300e50e.25f8a976@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 3/8/00 11:49:47 PM Eastern Standard Time,  
cdcobb@lonestar.rcclub.org writes:

<<  
11:30 local time or 0530 Zulu. It was very weak here but I listened to  
it for about 15 minutes. I don't think it was Tuesday night because we  
had thunderstorms thru here so probably Monday night. I don't hear it  
tonight but lots of static crashes. I listened to you on a Elecraft  
K-2 and a inverted V at 25 feet.

WA8ZBT

Dennis Cobb  
Sachse, Texas

>>  
Dennis,  
Thanks for the report.  
Nice to know the micro beacon made it to TX under the band conditions  
It was only on for that one night\*MONDAY\* & Tuesday up to 1600 UTC.  
Reports still coming in. \*GREAT\*.  
I'll do it again SOON  
Bob  
WA2HOQrp <tm>

-----  
Date: Wed, 8 Mar 2000 23:16:23 -0800 (PST)  
From: Gary Newberry <Gdn1@rocketmail.com>  
To: qrp-l@lehigh.edu  
Subject: [65268] RS Freq. Counter on Sale, Comments ?  
Message-ID: <20000309071623.13141.qmail@web2906.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Radio Shack has their 1 MHz - 1.3 GHz frequency counter  
(#22-306) on sale for \$59.00 (Reg = \$79.00) anyone have or  
use one of these counters ? I'm thinking of picking one up,  
comments welcome.

72/73 Gary K8IQ

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Thu, 9 Mar 2000 05:13:46 -0500  
From: Bill Lazure <n2tpa@juno.com>  
To: QRP-L@Lehigh.edu  
Subject: [65269] Re: Staged ads.  
Message-ID: <20000309.051420.-88469.0.n2tpa@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Ed,

Thanks for the reminder. I was "perturbed" by a recent post's  
glaring error of omission until I read your statement.

73,

Bill  
W2EB

Ed Loranger writes:  
> Someone who has never posted to the list, asks  
> a question about a major purchase.  
>  
> Plants. Staged advertisement. Beware of  
> this tactic.

>  
> 72/Ed we6w

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.  
-----

Date: Thu, 9 Mar 2000 05:27:03 -0500  
From: "George Heron N2APB" <n2apb@erols.com>  
To: "NJQRP" <NJQRP@njqrp.org>, <mlevans@mail.utexas.edu>, "QRP-L" <qrp-  
l@lehigh.edu>  
Subject: [65270] Re: SNAP kit schematic, construction guide & photos posted  
Message-ID: <001e01bf89b2\$06a31bc0\$5f59accf@ire.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Good point Michael. I didn't make it clear that the SNAP transmitter project is based on the Atlanticon QRP Forum guys building the circuit as neatly or uniquely as possible, and having as much power as possible being delivered to the 51-ohm load resistor "dummy load". Thus "keying the circuit" hasn't been stressed up to now.

But some of the guys have already got their SNAP transmitters on the air and making contacts, by removing that dummy load and connecting a 50--ohm antenna to the circuit output. They are keying the circuit with a hand key that connects the +9V to the Q1 oscillator circuit, much in the same manner as the Tuna Tin 2 transmitter is keyed.

There was a guy (Jake Carter, N4UY) who described a way to connect up his TiCK keyer chip and paddles in order to key the TT2. He used an intermediate PNP driving transistor like a 2N4403) to be the "switch" that applies the +9V voltage to the circuit. We actually have a "TT2 App Note" article describing this technique in the coming issue of QRP Homebrewer, due in people's mailboxes early next week. It can also be applied to the SNAP transmitter.

I'll make some of this clear on the SNAP schematic web page later today.  
Thanks for the feedback.

73, George N2APB  
n2apb@amsat.org  
SNAP webset at <http://www.njqrp.org/atlanticon/snap.html>



----- Original Message -----

Question: Really bad at reading schematics. What is keying this thing?  
Would a keyer be in series with the battery and pull everything to ground?  
Or is this just a smaller circuit designed to be used in bigger projects?

-----  
Date: Thu, 9 Mar 2000 06:05:41 -0600  
From: Karl Kanalz <KKanalz@excel.com>  
To: "'k8su@clover.net'" <k8su@clover.net>, Low Power Amateur Radio Discussion  
<qrp-l@Lehigh.EDU>  
Subject: [65271] RE: MFJ 9030  
Message-ID: <2D343922E283D211945C0008C7A41B2A01A74572@adntex01.adsn.dal.excel.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Kevin,  
Why don't you post ALL of your "For Sale" items in  
a \*single\* message so those of us who aren't interested  
in adding to our QRP collection can delete it in ONE  
keystroke instead of ten or fifteen?

Karl K- W8TIF  
McKinney, Texas

-----Original Message-----

From: Kevin E. Gray [mailto:k8su@clover.net]  
Sent: Wednesday, March 08, 2000 8:23 PM  
To: Low Power Amateur Radio Discussion  
Subject: MFJ 9030

For Sale MFJ 9030

\$107 plus shipping

Thanks,

KEvin

k8su  
-----

Date: Wed, 08 Mar 2000 19:16:42 -0500  
From: S LYON <sslyon@worldnet.att.net>  
To: we6w@qsl.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65272] Re: Folded Dipole wire spacing.  
Message-ID: <38C6ED6A.AB305F68@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Interesting, Ed

I'd seen Moxon's ref and built a 40m FD with 3' spacing. I also had one built from 450'-ohm ladderline. The difference over a month of operating????? NADA -on the RX end. Significant from the ATU perspective.

your milage may vary :)

72

-s-

Ed Loranger wrote:

>

> Interesting, in researching the QRQ net sentences

> yesterday, Les Moxon states in his book that

--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Thu, 9 Mar 2000 08:14:14 -0500  
From: "Scott Hotchkiss" <w4pj@bellsouth.net>  
To: <cd25d@rhapsodysails.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [65273] Re: Center insulator ??  
Message-ID: <021a01bf89c9\$5e8e9e60\$6ad04dd8@w4pj>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: Bill Slater <cd25d@rhapsodysails.com>

> Can I use sch 40 PVC for a center insulator for a dipole?

>

I understand that \*\*\* SOME \*\*\*\* PVC is a better dielectric than others.  
Put a sample in the microwave and cook on high for a minute.  
If it doesn't get hot it's made of the 'good' stuff.  
de (Scott) W4PJ QRP-L #1585 SOC #29

-----

Date: Thu, 09 Mar 2000 08:11:08  
-0000=?us-ascii?Q?\_(/etc/localtime`+=13=084=F4=FF=BF=CF=AC  
=08?=  
From: Rich Mulvey <mulveyr@iname.com>  
To: Gary Newberry <Gdn1@rocketmail.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65274] RE: RS Freq. Counter on Sale, Comments ?  
Message-ID: <XFMail.20000309081108.mulveyr@iname.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 8bit  
MIME-Version: 1.0

On 09-Mar-2000 Gary Newberry wrote:

> Radio Shack has their 1 MHz - 1.3 GHz frequency counter  
> (#22-306) on sale for \$59.00 (Reg = \$79.00) anyone have or  
> use one of these counters ? I'm thinking of picking one up,  
> comments welcome.

I've got one. At that price, it's a cheap, but very useful tool. If you  
don't already have a probe for testing purposes, you should get one, as well.  
( The counter comes only with an antenna. )

- Rich

-----

Date: Thu, 09 Mar 2000 08:19:12 -0500  
From: "Jim, WD9EYB" <wd9eyb@butler.indiana.net>  
To: qrp-l@lehigh.edu  
Subject: [65275] Nosey SMK-1 Questions  
Message-ID: <38C7A4D0.485A@butler.indiana.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have some nosey questions about the SMK-1.  
How was the prototype PCB fabricated?  
What software was used to layout the PCB?

Thanks,

Jim, WD9EYB

-----  
Date: Thu, 9 Mar 2000 09:11:39 -0500  
From: "AI2Q Alex" <ai2q@ispchannel.com>  
To: <n2apb@erols.com>  
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [65276] RE: Manhattan style ???????  
Message-ID: <000401bf89d1\$63e53880\$5c32a7d0@ispchannel.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

May I add that Manhattan-style construction is fast and easily modifiable? I just finished a rather elaborate rig (a 20-M SSB and CW transceiver) using Manhattan construction. The boards house 25 xstrs and 15 chips.

If I want to change something, it's an easy matter of plucking one of the "Manhattan" pads off the board using a pair of needle-nose pliers. I then re-vamp the circuit. I also find that the pads go down really quickly, and I found myself building complete stages in periods as short as an hour.

One last point: I also find that Manhattan-style construction lets me easily add a small board or "module" where it may be needed. I even mount the boards at right angles to each other, and have created L-sections with Manhattan-mounted components on each leg, as well as on both sides of a board (when using double-sided board stock such as that provided by Sergio).

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----  
Date: Thu, 9 Mar 2000 09:31:14 -0500  
From: "Ken Simpson" <W8EK@fdt.net>  
To: "QRP List" <qrp-l@lehigh.edu>  
Subject: [65277] Electronic Reference books FS  
Message-ID: <00b001bf89d4\$34b962e0\$281bfea9@kensimps>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Electronic "Reference type books" for sale:

Solid State Design for the Radio Amateur -  
First Edition - 1977 - \$ 10

ARRL Electronics Data Book - first edition  
1976 - Like new - \$ 10

AX.25 Amateur Packet Radio - Ver 2.0 - 1984 - \$ 7

ARRL Ham Radio Operating Guide - first edition  
1976 - \$ 8

Although not directly radio related, someone might be interested

Handbook for Patrol Leaders (Boy Scouts) - 1950 copyright -  
1959 printing \$18

Brownie Scout Handbook (Girl Scouts)  
1951 copyright - \$ 15

1986 American Red Cross "Expect the Unexpected" \$ 2

Prices do not include shipping from Florida.

Thanks.

73,  
Ken, W8EK

Ken Simpson  
E-Mail to W8EK@fdt.net or W8EK@juno.com  
Voice Phone (352) 732-8400

-----  
Date: Thu, 09 Mar 2000 09:41:47 -0500  
From: "Pete (N9SSA)" <n9ssa@arrl.net>

To: qrp-1@Lehigh.EDU  
Subject: [65278] OP: Too close to the FOX?  
Message-ID: <4.3.2.20000309091901.00d93dc0@172.16.1.100>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi everyone!

I'm sure having fun learning about contesting and QRP listening on the fox hunts. Fun fun fun!

Last Tuesday's hunt really put me through my paces, with the fox listening both up and down the band. I worked hard to figure out where he was listening, and would try to follow course. It seemed to me as though he was moving around a bunch, so I did to, for the most part. I have a hard time copying exchanges (bit QRQ for me still), so I do my best! Some times I would get lazy, and just "go up a bit" and call there.

I have been operating my Yaesu FT-900/AT, with a 250hz narrow CW filter. I absolutely love that filter! I have a feeling, however, that it may make me feel like my 500-700 Hz offset is miles away, when it's really too close...

So, to the question. How close is "too close" when trying to work the fox on split?

Say the fox is at 7042.5, listening up "at least 750 Hz".

Where is "too close"?

For sake of discussion, maybe a graph might help:

```
+ 7042.5 - Fox
|
|
|
|
+ 7042.75
|
|
|
|
+ 7043.0 - N9SSA calling the fox
|
|
|
|
+ 7043.25
```

In this example, I'm a mere 500 Hz from the fox, right? Too close?

I know we could go on for days on a discussion about ops with and without narrow filters. But, is there a 'rule of thumb' for just how close you want to get?

In drafting this note, I may have answered my own question. 750 Hz or more would be where I need to be. 7043.0 is too close. 7043.25 or higher would be the best ( $\geq +750\text{Hz}$ ).

So, if the fox just listens up? What's the minimum up they will go? 700Hz (normal offset)?

Thanks in advance for helping a newby out.

N9SSA - Pete Hoffswell  
Holland, MI - EN62wt - 42.79N 86.15W  
n9ssa@arrl.net <http://www.qsl.net/n9ssa>  
QRP-L #2109

-----  
Date: Thu, 9 Mar 2000 08:46:52 -0600  
From: "Hinsdale, Andy J." <AHinsdale@spectrapoint.com>  
To: "'QRP-L@lehigh.edu'" <QRP-L@lehigh.edu>  
Subject: [65279] Rainbow Tuner Kit For Sale  
Message-ID: <8D9A3E0C6F42D1118EDC0060081D3FFA0187D587@ucusmail.spectrapoint.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

FOR SALE: Unbuilt "Rainbow Tuner & SWR Bridge" kit from NJ QRP club with custom aluminum case from KE6RIE. Rare combination! This award-winning QRP kit is SOLD OUT & no longer available. If you have been kicking yourself for not getting one, this could be your last chance! Price \$75 FIRM for both Kit & case including shipping in CONUS... Andy KC5PGW

Here's the NJ QRP club site with tons of information on the Rainbow Tuner:  
[http://www.waterw.com/~njqrp/Rainbow/rb\\_home.html](http://www.waterw.com/~njqrp/Rainbow/rb_home.html)

-----  
Date: Thu, 9 Mar 2000 09:55:47 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>

To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.edu>  
Subject: [65280] FW: Error Condition Re: RE: N5IB log (08 March Z)  
Message-ID: <125490A005E3D3118C9C00805FC743CC08D35F@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

> Here's the final preliminary log, or preliminary  
> final log, for Tuesday night

Alas, I note that there are NO W1 land QSOs in there. I  
heard you 229 for part of the run -- at least I think it  
was you. :-) W1CER reports the same result; propagation  
from LA/NE was pretty bad.

Sorry, OM, we tried.

73 , Ed, W1RFI

-----Original Message-----

From: n5ib@juno.com [mailto:n5ib@juno.com]  
Sent: Wednesday, March 08, 2000 11:24 PM  
To: Low Power Amateur Radio Discussion  
Subject: FOX: N5IB log (08 March Z)

Here's the final preliminary log, or preliminary final log, for Tuesday  
night

Last call for corrections, all ashore who's going ashore...

0200	K5LN	559	TX	BILL	1794
0202	K5RV	559	LA	BRIAN	324
0204	N1LN	589	TX	BRUCE	2049
0205	K5VUU	599	TX	ED	1343
0205	N5EN	559	TX	STEVE	2071
0207	K5JHP	559	TX	BILL	825
0208	AF5Z	579	TX	BOB	984
0209	W0JOE	559	MO	JOE	1901
0210	N1TP	599	FL	TOM	1317
0211	N0DT	559	MO	DAN	1004
0212	N0EA	559	MO	WAYNE	1058
0214	N5TW	559	TX	TOM	1474
0214	W5YR	559	TX	GEORGE	1373
0215	N0EHW	559	MO	TIM	2047
0216	K5AAR	559	OK	DON	1512
0217	N4ROA	349	VA	DAN	970
0218	AF4PS	579	FL	MAC	704



0220	W5SB	559	TX	BILL	1279	
0221	K5DW	559	TX	DON	2083	
0222	KI0G	559	TX	BOB	239	
0224	K10J	559	TX	OJ	732	
0225	N5IW	579	TX	DAVE	1718	
0226	K5ZTY	559	TX	BILL	473	
0228	KK5LD	559	TX	DAN	2052	
0230	N5LU	559	OK	BILL	2009	
0231	W0CH	559	MO	DAVE	618	
0232	K0EVZ	559	ND	DOC	861	
0233	KD5CMN	559	TX	MIKE	1328	
0234	WS4S	529	TN	CONRAD		993
0238	AE4Y	559	GA	KENT	1844	
0241	NK7M	229	AZ	BOB	271	
0243	K5OI	559	NM	TIM	73	
0245	N8IE	449	OH	DAN	1404	
0246	K4AL	449	KY	LEN	5W	
0255	KB9IUA	339	IL	KEVIN		2384
0259	K0CO	449	TX	JACK	619	
0300	NQ7X	559	AZ	FLOYD		343
0303	K5UX	559	LA	MIKE	1818	
0305	KQ5U	559	TX	TERRY	1604	(1603?)
0306	N9AW	339	WI	JERRY	1271	
0309	K8CV	229	MI	WALT	935	
0311	AF4PP	339	GA	CHUCK		1785
0317	KS4L	559	AL	RANDY		468
0319	N9SSA	599	MI	PETE	2109	
0322	KI0II	549	CO	RON	928	
0323	W1XT	559	AZ	BOB	262	
0325	NC90	559	IL	SKIP	913	
0331	W2XN	559	FL	FRED	1728	
0332	W8RU	559	MI	RON	188	
0333	N5GJQ	559	LA	MIKE	5W	
0335	AJ4Y	449	FL	PAUL	1795	
0338	K5FNW	539	TX	DAVE	4W	(Joe?)
0339	N0AR	559	MN	SCOTT	1455	
0340	NV4V	339	KY	PETE	1721	
0348	WB0HQV229		MO	JIM	2100	
0354	AE2T	229	NY	AL	1664	

-----  
 YOU'RE PAYING TOO MUCH FOR THE INTERNET!

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Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

-----

Date: Thu, 9 Mar 2000 10:08:05 -0500  
From: "Dieter \((Diz\) Gentzow" <wb8qyy@cinci.rr.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [65281] HB: PIN Diodes  
Message-ID: <003f01bf89d9\$458584f0\$3d061d18@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Hi Gang...

Does anybody have any surplus 1N5767 or 5082-3080 PIN diodes.  
Would like to buy or trade. Need them for a club project.

73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY  
Loveland, Ohio (Clermont County - EM79ug) - near Cincinnati; 39.218N -  
84.305W  
SOC#8 FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493  
<http://home.cinci.rr.com/wb8qyy>

-----  
Date: Thu, 9 Mar 2000 07:09:58 -0800  
From: "Phinizy, William" <wphinizy@filenet.com>  
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>  
Subject: [65282] (OT?) O-Scope Technical Question..  
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F02BE5C20@hq-expo2.filenet.com>

My sincere appreciation to the many who responded to this post.

I was trying to get a hypothetical question answered (and did so admirably  
by the group). For the record, I \*do\* have an RF probe for my DMM and I \*do\*  
have an AC setting on my 'scope..I just was wondering "what if"..

Thanks again,

Bill, k6whp

-----  
Date: Thu, 9 Mar 2000 09:20:56 -0600  
From: "Hinsdale, Andy J." <AHinsdale@spectrapoint.com>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [65283] FW: Rainbow Tuner Kit For Sale  
Message-ID: <8D9A3E0C6F42D1118EDC0060081D3FFA0187D58C@ucusmail.spectrapoint.com>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

This item is sold (half an hour after I posted it!), thank you!... Andy

> -----Original Message-----  
> From: Hinsdale, Andy J.  
> Sent: Thursday, March 09, 2000 8:47 AM  
> To: 'QRP-L@lehigh.edu'  
> Subject: Rainbow Tuner Kit For Sale  
>  
> FOR SALE: Unbuilt "Rainbow Tuner & SWR Bridge" kit from NJ QRP club with  
> custom aluminum case from KE6RIE. Rare combination! This award-winning  
> QRP kit is SOLD OUT & no longer available. If you have been kicking  
> yourself for not getting one, this could be your last chance! Price \$75  
> FIRM for both Kit & case including shipping in CONUS... Andy KC5PGW  
>  
> Here's the NJ QRP club site with tons of information on the Rainbow Tuner:  
>  
> [http://www.waterw.com/~njqrp/Rainbow/rb\\_home.html](http://www.waterw.com/~njqrp/Rainbow/rb_home.html)  
>

-----  
Date: Thu, 9 Mar 2000 07:28:49 -0800 (PST)  
From: Jim Hale <kj5tf@yahoo.com>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [65284] AR QRP 80M net results  
Message-ID: <20000309152849.4272.qmail@web705.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

The following is from AR QRP Club NCS Bob N9ZZ/NQ5RP.

Conditions at my station were great, the band was  
quiet and sigs were all very good.

The checkins were: W0LK (5 watts), K0NI (5 watts),  
K5ID (5 watts), KJ5TF (3 watts), N0WM (5 watts), KCOM  
(4 watts) & N9ZZ (NQ5RP at 5 watts)

Our 40M SSB and CW nets are inactive at the moment for  
lack of a NCS.

We will concentrate our efforts on the 80 meter net  
and not worry about the other nets.

The AR QRP 80M net meets every monday evening at  
7:30PM central time on 3.560mHz.

72's de Jim KJ5TF/NQ5RP

=====

<http://www.madisoncounty.net/~kj5tf/>  
Milliwatting Editor ARCI QRP Quarterly  
Join/renew membership QRP Amateur Radio Club International  
<http://www.qrparci.org/arcijoin.html>  
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W  
Private email [kj5tf@madisoncounty.net](mailto:kj5tf@madisoncounty.net)

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

-----  
Date: Thu, 09 Mar 2000 10:46:34 EST  
From: "Mark Adams" <k2qo@hotmail.com>  
To: [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [65285] FS: TT ARGO 556 with PS  
Message-ID: <20000309154634.86016.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Gang,

TenTec Argo 556 with NB and 160,80,40,30,20,15,10M modules. All in near mint condition. Includes Astron RS-7A Power Supply (5A continuous). All shipped to the lower 48 for \$400.

Mark S. Adams, K2QO (ex-N2VPK)  
The Buffalo QRP Connection

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 9 Mar 2000 07:59:53 -0800 (PST)  
From: Monte Stark <[ku7y@dri.edu](mailto:ku7y@dri.edu)>  
To: "Pete (N9SSA)" <[n9ssa@arrl.net](mailto:n9ssa@arrl.net)>  
Cc: Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>

Subject: [65286] Re: OP: Too close to the FOX?  
Message-ID: <Pine.GS0.4.10.10003090731060.23090-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Pete and all,

You ask a very good question!

Two issues here.

First is filter size. As a hunter using a narrow filter to hear the Fox is fine. Using a narrow filter to see where the Fox is listing for hounds CAN make it harder.

I leave the 2nd RX wide open when looking for the hounds that are being worked. I use all the filters I need to copy the hound. Often down to 120 Hz.

Second is where to set your vfo to call the Fox.....

You want to listen to what the Fox is doing and try to figure out (guess?) where he/she will be listing NEXT, not only where he was listing LAST time.

Here is what I look for:

I find the hound that is getting the Pelt and slide up about 200 Hz. I do that each time the Fox takes a station who is UP.

If the Fox is moving up in bigger or smaller steps I adjust accordingly.

If the Fox is working DOWN I do the same thing but going down.

Sometimes the Fox will just jump around, first getting a hound UP a bit and next one DOWN a bit.

If that is the case, when he works a hound below his freq, I'll go UP and hope to be the next one! How far up? Wherever he work a hound UP the last time....plus about 200 Hz. This is just a "feels about right" thing.

If the Fox doesn't have a firm pattern it's hard to know where to be.

I will also listen to the pile of HOUNDS while calling (QSK) and move to the edge of the pile. Maybe high and maybe low. Just depends on where I THINK the Fox will be turning his dial to!

There really isn't any firm right/wrong on where to call EXCEPT..... don't call on the Fox's freq unless that is what the Fox wants.

Things that will help both the Fox and the other Hounds is to use QSK. If the Fox is loud enough you can hear when the Fox starts sending and then you just STOP. Don't finish your call, just stop.

Only send your call once and listen. If nothing heard of the Fox, send it again.

Continue this sending/listening pattern until you hear the Fox send. BUT.....

Make SURE that the Fox isn't sending. If you can't hear the Fox because of the QRM, stop sending after one call and LISTEN. Wait until you have a clear shot to really hear the Fox before sending again.

If you are at least 500 Hz away from the Fox you should not be causing anyone any QRM but if you are closer you really need to be carefull not to QRM the Fox.

I have heard some people call the Fox with 2 to 5 calls right in a row while zero beat with the Fox! This is a great way to become known as a LID! :-)) When I say "in a row" I mean without so much as a little break to listen for the Fox.

Having said all that.....

Will people QRM the Fox? Sure! It happens all the time. We will call a few times and finally notice that we are on the wrong VFO and are indeed zero beat with the Fox!

So yes, there will be QRM. But if it can be held down to just those few "Oops, I'm on the wrong VFO" type of things, we will all be happy! :-))

To summerize..... the key is to listen to what the Fox HAS done in order to guess what he/she is GOING to do next!

Hope this helps,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

-----

Date: Thu, 09 Mar 2000 10:08:05 -0600  
From: "George T. Baker" <w5yr@att.net>  
To: n9ssa@arrl.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65287] Re: OP: Too close to the FOX?  
Message-ID: <38C7CC65.52FDAC0D@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Now you are beginning to understand why it is call a Fox HUNT! ;^)

There really aren't any hard and fast rules - every new Fox is entitled to run the show HIS/HER way, for better or worse.

For my part, the only ABSOLUTES should be (1) Hounds never call the Fox on his own frequency and (2) if you are the Fox ALWAYS give the Hound call you are working at the beginning and end of your transmission.

Your mileage WILL vary! But, remember the idea is for everyone to have fun.

72/73, George  
Fairview, TX 30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

"Pete (N9SSA)" wrote:

>

> Hi everyone!

>

> I'm sure having fun learning about contesting and QRP listening on the fox  
> hunts. Fun fun fun!

> So, to the question. How close is "too close" when trying to work the fox  
> on split?

-----  
Date: Thu, 9 Mar 2000 11:12:12 -0500  
From: "D Howard" <dhoward@sympatico.ca>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [65288] Re: FS: Small WOrder Labs 6M - 15 M kit  
Message-ID: <LNBBJGGC0IKHOGGKCHHMKECHDBAA.dhoward@sympatico.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi  
Could you please describe this unit - I cannot find anything on the SWL  
website about it.  
Does it allow coverage of 10meters for a SWL transceiver?  
73  
Dan, VA3MA

-----  
Date: Thu, 9 Mar 2000 11:36:49 -0500 (EST)  
From: "Paul R. Valko" <prvalko@oakland.edu>  
To: Monte Stark <ku7y@dri.edu>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65289] MOMMAFOX : Too close to the FOX?  
Message-ID: <Pine.OSF.4.21.0003091110000.29674-100000@saturn3.acs.oakland.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Time for Mom to jump in because I need to make sure you good folks  
understand one little thing.

On Thu, 9 Mar 2000, Monte Stark wrote:

> There really isn't any firm right/wrong on where to call  
> EXCEPT..... don't call on the Fox's freq unless that is  
> what the Fox wants.

Actually, that's not \*exactly\* true. The fox hunt primarily is a FUN  
event that gets us off the PC for a couple hours a week and gets the rigs  
on the air.

The foxhunt is wildly popular beyond our dreams and the pile-up is  
ferocious. Yet, as of this year, the fox STILL is to listen to his or her  
calling freq to pick up simpler rigs without RIT.



Now, if any of you are so die-hard a QRP op that you have the grapes to try and work the fox with a 49er, be my guest :-) Good Luck!

The fox is encouraged to use their RIT to pick up stations, but we really should not be creating a 10 KHz-wide pile up on 40M... even if it's not a weekend. Hounds are encouraged to try and spread out, but most important, please do not QRM the fox. That means, QSK and LISTENING SKILLS. Any idiot can push the button on the TICK and blast off their callsign. Be smart about when you it.

Next year there will undoubtedly be some changes written into the rules, simply to try and get a handle on the activity. Maybe limit the foxhunters to 49ers and TT2's???

Just kidding.

Love,

Mom

73! =paul= W8KC  
Collector of Ten\*Tecs and other fine plastics.  
Visit the Virtual Ten\*Tec Museum at:  
<<http://www.acs.oakland.edu/~prvalko>>

-----  
Date: Thu, 9 Mar 2000 09:36:48 -0700  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: <elecraft@qth.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [65290] Equipment carryiing case for K2 & other stuff  
Message-ID: <023f01bf89e8\$921179a0\$b4101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Folks:

I found a very nice case for toting my K2 & other stuff at Harbor Freight last weekend. From the package label:

Aluminum Tool Case With Foam Divider, Item 39196  
Two Key locks and a Carrying strap  
Holds Tools, Camera equipment and more  
Foam divider and tool pocket  
Non-skid rubber feet

#### DETAILS

#### OUTSIDE

The case is made with aluminum members forming the edges, and textured plastic sheets forming the top, sides bottom...etc. riveted together in sturdy fashion. The corners are rounded plastic. Locks and hinges are sturdy construction.

#### INSIDE

Inner surfaces are lined with thin foam/rubber to protect equipment. The liners for the bottom compartment are notched and several dividers (foam/rubber covered) are included. Also included are two foam inserts that completely fill the top and bottom of the case.

Now here is the cool part: The bottom insert is scored every inch in both the horizontal and vertical direction, so you can remove pieces to custom fit the gear you plan on toting.

Also included is a "tool holster" that fits snugly in the top section.

The item is available on line at <http://www.harborfreight.com>, but there is no picture. If you really must see a picture, contact me--OFF REFLECTOR--I can get a serviceable photo made with my inexpensive digital camera.

---

72/3 Rod, N0RC -- Fort Collins, CO

-----

Date: Thu, 9 Mar 2000 09:45:23 -0700  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [65291] XTALS, PCB stock needed.  
Message-ID: <024001bf89e8\$933671a0\$b4101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;



5w is 5W, but obviously the person with a DSW-40 is at some=20  
disadvantage to an operator with a \$4000 commerical rig dialed down. =20=

Maybe not as much as we think.

Ed Lawson

-----  
Date: Thu, 09 Mar 2000 09:28:21 -0800  
From: Bill Jones <kd7s@psnw.com>  
To: qrp-l@lehigh.edu  
Subject: [65293] Prototyping with SMD components  
Message-ID: <38C7DF35.A509FAA5@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The question was asked recently, "How do you build a prototype circuit using SMD parts." I was wondering the same thing but saw no answers. I have to wonder, though, why someone couldn't cobble up a circuit Manhattan style. The only difference would be the spacing of the pads. Has anybody tried this?

--

-----  
Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
-----

-----  
Date: Thu, 09 Mar 2000 12:37:05 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: kd7s@psnw.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [65294] Re: Prototyping with SMD components  
Message-ID: <38C7E141.18AF@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bill,

There are various 'surf boards' offered to prototype with SMD devices. Also, look at teh DeMaw series on breadboarding where he used circuit board materials cut into squares and soldered the parts directly to the boards. Something like this could be done for SMD.

73

-----  
Date: Thu, 09 Mar 2000 11:28:32 -0600  
From: Richard Matthews <prm@hiwaay.net>  
To: qrp-l@lehigh.edu  
Subject: [65295] Re: NorCal: SMK-1 kits orders top 100 in 24 hours!!!!!!!!!!!!!!  
Message-ID: <3.0.1.32.20000309112832.00c53e20@hiwaay.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Well, I went and joined the other 200 plus QRPers who got in line for one of those new NORCAL SMK-1 kits, can't wait. But while I am waiting I thought I would be getting prepared to build the little jewel. Guess my Heathkit AR-3/AT-1 tube station restoration project will have to wait.

Just last month I acquired one of those fancy Edsyn temperature controlled soldering stick stations, <http://www.howardelectronics.com/edsyn/951sx.html> so I think I am OK there. Someone said that you need a good set of tweezers to handle the SMT components with and looking around I found some Erem precision tweezers, <http://www.xcelite.com/pdf/files/55808.pdf>. Don't know what they will cost. Anyone ever used those?

Having that covered, I moved on to my biggest concern, trying to work with those mite sized components with my 55 year old eyes. There were two SMT components that had to be handled when I built my Small Wonder Labs DSW-40 and DSW-30, not to mention the many other components that I had trouble reading the tiny ID numbers on. So yes, I need some seeing help. That lead to my finding "Sparky Mag-eyes" personal magnifiers <http://www.practicalcomponents.com/mag-eyes.htm>. Sort of reminds one of the reading glasses Grandpa wore.

Who would have ever thought that ham radio kit building would get down to this? If things get any smaller, what we gonna do then?

Richard WA4NWW . . . . honey, I just shrunk the radio.. . . . again.

Date: Thu, 09 Mar 2000 09:36:54 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65296] For Joe, in LA.  
Message-ID: <38C7E136.5105@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Joe, the wife just called and found your message on the answering machine. Sorry I missed you. If you wish, email me and I'll pass along my work number.

-Ed we6w, "72"

--

-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
Call Tobor, The 8th Man, to the rescue!

-----  
Date: Thu, 09 Mar 2000 09:39:12 -0800  
From: Dave Fifield <fifield@pacbell.net>  
To: wd9eyb@butler.indiana.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65297] Re: Nosey SMK-1 Questions  
Message-ID: <002b01bf89ee\$61ba8a20\$0100a8c0@pacbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Jim,

I used the CIRCAD schematic capture and layout tool from Holophase (<http://www.holophase.com> I believe). I get prototype boards made by AP Circuits in Canada - I can usually have them in about 3 days (<http://www.apcircuits.com>). The prototype boards are not solder masked or silk screened, they are just bare tinned copper, but are fine to check the layout for hole and pad sizes and basic connectivity. The two SMK-1 prototype boards cost about \$75 to do, so it's not something you'd want to do for all your QRP projects! Let me know if you want to be more nosey - no problem!

Cheers,  
Dave Fifield, AD6A

----- Original Message -----

From: Jim, WD9EYB <wd9eyb@butler.indiana.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Thursday, March 09, 2000 5:19 AM  
Subject: Nosey SMK-1 Questions

> I have some nosey questions about the SMK-1.  
> How was the prototype PCB fabricated?  
> What software was used to layout the PCB?  
>  
> Thanks,  
>  
> Jim, WD9EYB  
>

-----  
Date: Thu, 09 Mar 2000 09:42:01 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65298] QST give QRP a push.  
Message-ID: <38C7E269.308@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang, I worked a guy last night. It was his  
First-ever QRP attempt. He was really stoked!  
He had read some articles in QST and decided  
to try it with his KD-570d.

A very satisfying qso with a newcomer to this  
very exciting club!

72 to all. -Ed we6w

--  
-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
Call Tobor, The 8th Man, to the rescue!

-----  
Date: Thu, 09 Mar 2000 11:47:06 -0600  
From: Richard Matthews <prm@hiwaay.net>  
To: k1vp@lawson-philpot.com, qrp-l@lehigh.edu  
Subject: [65299] Re: MOMMAFOX : Too close to the FOX?  
Message-ID: <3.0.1.32.20000309114706.00c55c80@hiwaay.net>

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Ed wrote in response to Paul

>> Maybe limit the  
>> foxhunters to 49ers and TT2's???  
>  
>Why not? Or at least to kits or max power of 1W.  
>I guess that raises the whole issue of "pure" QRP.  
>Guess people should be free to set their own rules as to rigs.  
>5w is 5W, but obviously the person with a DSW-40 is at some  
>disadvantage to an operator with a \$4000 commercial rig dialed down.  
>Maybe not as much as we think.  
>  
>Ed Lawson  
.....

Lets see  $\$4000.00/\$135.00 =$  about 30 times. A 30 time advantage over a DSW-40? Nope.

I guess pure QRP would be, under 5 watts, on a rig you built yourself, using a simple wire antenna . . . . . with one hand tied behind your back:-) Top dollar purchased capability is not really that impressive to those who enjoying "making do".

When I built my TT2, that made my DSW-40 the QRO rig in the shack and made me feel like I wasn't really QRP if I wasn't trying to make a contact using the fish can. I'm really looking forward to the SMK-1 kit, an improved TT2 in a smaller still package, it just gets better 'n better.

Richard, WA4NWW

-----  
Date: Thu, 09 Mar 2000 09:58:39 -0800  
From: John Kuklewicz <kukl@cybrquest.com>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [65300] [Fwd: Prototyping with SMD components]  
Message-ID: <38C7E64F.3234F0DF@cybrquest.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello, I'm new to the list, but think I can add a little to this discussion.



I have done this (SMD prototyping and rework dead bug style and as you call it Manhattan style (3-D construction)). It works ok, just be VERY careful with your soldering - the solder cap termination on passive components (resistors and caps in particular) are very weak and will delaminate if too much heat is applied. In production it is totally verboten to touch a soldering iron (during rework) to the component terminations as they will eventually fail due to microcracking. Solder iron touches the pad only and the solder gets flowed onto the termination.

These techniques work OK for engineering work, but long term reliability is questionable. I have had lashups work for a few weeks then components would start popping apart.

73; John KQ6WC

Bill Jones wrote:

>  
> The question was asked recently, "How do you build a prototype circuit  
> using SMD parts." I was wondering the same thing but saw no answers. I  
> have to wonder, though, why someone couldn't cobble up a circuit  
> Manhattan style. The only difference would be the spacing of the pads.  
> Has anybody tried this?  
> --  
>  
> -----  
> Bill Jones - KD7S <><  
> Sanger, California  
> <http://www.psnw.com/~kd7s>  
> -----

--

John Kuklewicz KQ6WC [kukl@cybrquest.com](mailto:kukl@cybrquest.com)  
Disclaimer: I pay for this account, and can say anything I want!

Happiness is a power failure during the New Moon

-----

Date: Thu, 9 Mar 2000 13:05:13 -0500 (EST)  
From: "Paul R. Valko" <[prvalko@oakland.edu](mailto:prvalko@oakland.edu)>  
To: Richard Matthews <[prm@hiwaay.net](mailto:prm@hiwaay.net)>  
Cc: Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [65301] OP: "Real" QRP...  
Message-ID: <Pine.OSF.4.21.0003091302490.18034-100000@saturn3.acs.oakland.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 9 Mar 2000, Richard Matthews wrote:

> When I built my TT2, that made my DSW-40 the QRO rig in the shack and made  
> me feel like I wasn't really QRP if I wasn't trying to make a contact using  
> the fish can.

This wacky topic pops up on QRP-L quite often. Your comment was the  
funniest thing I've read on here in a while! Thanks :-)

73! =paul= W8KC

Collector of Ten\*Tecs and other fine plastics.

Visit the Virtual Ten\*Tec Museum at:

<<http://www.acs.oakland.edu/~prvalko>>

-----  
Date: Thu, 09 Mar 2000 10:06:55 PST  
From: "Doug Hendricks" <[ki6ds@hotmail.com](mailto:ki6ds@hotmail.com)>  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [65302] NorCal: SMK-1 Prototyping  
Message-ID: <20000309180655.22203.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Jim and several others have asked how we got the SMK-1 surface mount 40  
meter transceiver developed and prototyped so quickly, and what software we  
used. This is going to be long, so delete if not interested.

About 2 or 3 weeks ago someone posted to the list a one or two line message  
that said, "When are we going to get out of the dark ages and do a real rig  
surface mount." I decided that it was time to announce that NorCal has in  
development a full featured surface mount kit. The announcement was made on  
QRP-L and I was flooded with messages of support, and asking for an  
intermediate kit that the guys could use to learn surface mount techniques  
on. The Knight Lites had done the Smite, to the tune of over 700 kits, but  
no longer do that kit. The Smite was a surface mount Pixie, and was done  
very well by the Knight Lites. Embedded Research has a surface mount TiCK  
keyer kit, but it only has 3 or 4 surface mount parts to solder, not really  
enough to get a feel for working with SM. I thought about it, and the light  
went on. Dave Fifield, AD6A, had done a wonderful job with his TT2/MRX kit  
for the building contest at Pacificon. He had the schematic on his  
[www.redhotradio.com](http://www.redhotradio.com) web site, so I decided to take a look. This would be  
perfect. 75 to 80 parts, neat little transceiver with RIT, XIT, sidetone,  
about 1/2 watt out. The neat thing was that it used two crystal VX0's, with  
about 5 kHz on receive and 2 kHz on transmit. Guys could build this, and

have a usable little transceiver. It would not be the full featured rig that is in the pipeline for later this summer, but it was perfect as a learning tool. Not only would the guys have to learn how to build with surface mount components, but I would have to drastically revise the way that I kit projects. It would be a perfect opportunity for me to learn a new system. Looked like a win-win situation.

The next thing to do was to make a trip to San Jose and meet Dave Fifield for lunch. The purpose was to see if his design really could be easily transferred to surface mount, and to see if I could get Dave interested in doing the layout and prototyping. We looked at the circuit, and I told Dave that all parts were available surface mount except for the LM380. I suggested that we replace it with the SOIC available LM386, which Dave did. Dave was eager to do the project. He told me that he firmly believes that we must move to surface mount, as the leaded parts are drying up. He said that he had a horrible time finding parts for the Red Hot Radio NC20 and the RHR40, had to make several "last time buys" in large quantities just to assure himself that he would have an adequate supply. He liked the idea of using the 1206 parts. I chose them for a couple of reasons. First of all they are not that small, and they are readily available. There is a crunch for 805 and smaller parts in surface mount at this time. Lead times on some capacitors can be as much as 52 weeks!! But there is no problem with 1206's.

Dave is very familiar with Circad, he has a professional copy, as do I, and we agreed that it would be the perfect tool to use. This would be Dave's first attempt at laying out a surface mount board, and he was quite excited.

Dave started on the layout about 4 PM Saturday afternoon, and I watched and assisted him (I looked up parts specs) for about 3 hours. Finally, we had all the parts spec'd, and I left to drive back to Dos Palos. When I arrived home, Dave called and said that he had the first pass of the board finished, and that it was going to be 2.5" wide by 2.25" deep!! with the control pots for RF gain, Rec. Tune, and Xmit Tune mounted on the front side of the board.

The layout was finished and checked on Sunday evening, and was emailed as a Gerber file to AP Circuits in Alberta, Canada where we were able to get 2 prototype boards made and delivered to Dave by Wednesday. Dave ordered parts from Mouser and Digikey on Monday to prototype with, and started building Thursday night. He finished the rig, and had a QSO with Ed Loranger I believe on Saturday, or maybe it was Friday night. 7 days from conception to working prototype.

Several have wondered how we did this so fast. Now you know. We took a proven circuit, and transferred it to SMT, rather than starting from scratch designing. But, in the process, Dave has made a couple of changes that have significantly improved the radio. One is the VXO range. He did a little trick with the tuning diodes (1N4004's) and by playing with the values, has

it now so that the receiver tunes 5 kHz, and the transmitter tunes 2 kHz, but the best part is that the transmitter tuning range is in the middle of the receiver tuning range!!

Yesterday, I drove to San Jose to buy parts. I must tell you that it was the easiest time that I have ever had finding parts. Much easier than sourcing through hole components. Dave and I met for dinner, and as of this morning, every part is ordered or already in Dos Palos.

You can learn full details of the SMK-1 at [www.redhotradio.com](http://www.redhotradio.com) and click on the SMK-1 button. Dave will try to get the final schematic up by this weekend. He will post to the list when it is up.

72, Doug

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 9 Mar 2000 13:09:12 -0500  
From: "Hare, Ed, W1RFI" <[w1rfi@arrl.org](mailto:w1rfi@arrl.org)>  
To: "'prvalko@oakland.edu'" <[prvalko@oakland.edu](mailto:prvalko@oakland.edu)>, Low Power Amateur Radio Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [65303] RE: MOMMAFOX : Too close to the FOX?  
Message-ID: <125490A005E3D3118C9C00805FC743CC08D36C@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

From: Paul R. Valko [<mailto:prvalko@oakland.edu>]

> Now, if any of you are so die-hard a QRP op that you  
> have the grapes to try and work the fox with a 49er,  
> be my guest :-) Good Luck!

Well, the W1FB fox will be using the TT2, power output probably around 800 mW, so the die hards will be on both ends. :-)

-----Original Message-----

From: Paul R. Valko [<mailto:prvalko@oakland.edu>]  
Sent: Thursday, March 09, 2000 11:37 AM  
To: Low Power Amateur Radio Discussion  
Subject: MOMMAFOX : Too close to the FOX?

Time for Mom to jump in because I need to make sure you good folks

understand one little thing.

On Thu, 9 Mar 2000, Monte Stark wrote:

> There really isn't any firm right/wrong on where to call  
> EXCEPT..... don't call on the Fox's freq unless that is  
> what the Fox wants.

Actually, that's not \*exactly\* true. The fox hunt primarily is a FUN event that gets us off the PC for a couple hours a week and gets the rigs on the air.

The foxhunt is wildly popular beyond our dreams and the pile-up is ferocious. Yet, as of this year, the fox STILL is to listen to his or her calling freq to pick up simpler rigs without RIT.

Now, if any of you are so die-hard a QRP op that you have the grapes to try and work the fox with a 49er, be my guest :-) Good Luck!

The fox is encouraged to use their RIT to pick up stations, but we really should not be creating a 10 KHz-wide pile up on 40M... even if it's not a weekend. Hounds are encouraged to try and spread out, but most important, please do not QRM the fox. That means, QSK and LISTENING SKILLS. Any idiot can push the button on the TICK and blast off their callsign. Be smart about when you it.

Next year there will undoubtedly be some changes written into the rules, simply to try and get a handle on the activity. Maybe limit the foxhunters to 49ers and TT2's???

Just kidding.

Love,

Mom

73! =paul= W8KC

Collector of Ten\*Tecs and other fine plastics.

Visit the Virtual Ten\*Tec Museum at:

<<http://www.acs.oakland.edu/~prvalko>>

-----  
Date: Thu, 09 Mar 2000 13:17:07 -0500

From: "Pete (N9SSA)" <n9ssa@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [65304] OP: Hound Rigs [was: RE: MOMMAFOX : Too close to the FOX?]  
Message-ID: <4.3.2.20000309130806.00d859f0@mail.iserv.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Regarding fox hound's rig choices -

I do enjoy my Yaesu, and am trying to hone my hunting skills with the enhanced receive capabilities it offers. I did, however, decide to pull out my Backpacker II for my next hunt.

I think QRPp and HB fox hunts are a great idea, but I also wouldn't want to count out my Yaesu.

As Paul mentioned, there will be rules changes for the next hunting season. Perhaps a point should be considered? varying points for HB, power, etc?

Oh my, this looks like a can of worms.... ;-)

At 12:47 PM 3/9/00, Richard Matthews wrote:

>Ed wrote in response to Paul  
>  
> >> Maybe limit the  
> >> foxhunters to 49ers and TT2's???  
> >  
> >Why not? Or at least to kits or max power of 1W.

<snip>

N9SSA - Pete Hoffswell  
Holland, MI - EN62wt - 42.79N 86.15W  
n9ssa@arrl.net <http://www.qsl.net/n9ssa>  
QRP-L #2109

-----  
Date: Thu, 9 Mar 2000 13:21:35 -0500 (EST)  
From: "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>  
To: Richard Matthews <prm@hiwaay.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65305] Re: MOMMAFOX : Too close to the FOX?

On Thu, 9 Mar 2000, Richard Matthews wrote:

Could I ask for an exception? While I've mastered doing a lot of things with one arm tied behind my back AND having one leg tied up in the air, my bad eyesight and an inherited nervous disorder that causes random loss of fine motor control(just ask anyone who has heard my qlf fist) precludes building a rig with components smaller than foot-lockers.

Maybe we're third-class ops ?

Thom LaCosta Webmaster

Date: Thu, 9 Mar 2000 13:22:06 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:w5yr@att.net" <w5yr@att.net>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group  
<QRP-L@Lehigh.edu>  
Subject: [65306] Re: OP: Too close to the FOX?  
Message-ID: <200003091324\_MC2-9C78-80D3@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain;  
charset=us-ascii  
Content-Disposition: inline

George:

I concur wholeheartedly.....especially about the part of giving the hound's call at the beginning and the end, at least at the end. The other evening QRN and HEAVY QSB and SSB QRM made the hunt a nightmare here, and I luckily guessed right and got a pelt at 0232. It may take a bit longer to send the call, but it makes it crystal clear to whom you are referring as Da FOX. Have always done it this way, even in contests, and overall it makes for much better operation.

BTW, GL to you and everyone in tonight's FOX hunt. Here's hoping for much improved propagation tonight.

72,

--Doc Lindsey/K0EVZ

DSBF

PO BOX 6028

Bismarck, ND 58506

K0EVZ@arrl.net

-----  
Date: Thu, 9 Mar 2000 11:23:34 -0700

From: "Rod, N0RC" <n0rc@qsl.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <elecraft@qth.net>

Cc: <DOCROCK1T@aol.com>

Subject: [65307] CASE DIMENSIONS: Re: Equipment carryiing case for K2 & other stuff

Message-ID: <02a701bf89f4\$cf55de80\$b4101004@compaq>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

OOPS forgot the case dimensions:

18" W x 13" D x 6" H

---

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----

From: Rod, N0RC <n0rc@qsl.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, March 09, 2000 9:36 AM

Subject: Equipment carryiing case for K2 & other stuff

> Folks:



>  
> I found a very nice case for toting my K2 & other stuff at Harbor  
> Freight last weekend. From the package label:

-----  
Date: Thu, 9 Mar 2000 10:31:14 -0800  
From: "Bob Tellefsen" <n6wg@earthlink.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65308] Re: Prototyping with SMD components  
Message-ID: <01bf89f5\$a6b7cf00\$68d0fc9e@ham.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bill

One idea I've been thinking about is to use the Manhattan approach with very small pads cut with a nibbling tool. Mine come out around 1/16 inch wide by between 1/8 and 3/16 inch wide. This would seem to match the footprint of at least the larger SMD parts adequately.

73, Bob N6WG

-----  
Date: Thu, 09 Mar 2000 13:50:00 -0500  
From: Paul Womble <pwomble1@tampabay.rr.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65309] Re: OP: Hound Rigs [was: RE: MOMMAFOX : Too close to the FOX?]  
Message-ID: <38C7F258.525D1214@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I use my high-dollar JA rig for the hunts. Yep...@ 5 watts.

I have built a K2. I am among those who have ordered the SMK-1.

But...I enjoy the "competition" and contributing to the Swamp Rat team score the most. I have worked some of the hunts with the K2...but keep going back to the "big" radio. I do admit getting satisfaction out of working the fox with the K2 because I built the radio. However, if I miss the fox then the fact that my team score is impacted cancels out that satisfaction.

Does using that non-homebuilt rig make me less QRP than the guy/gal using any of the kit or other HB radios? Let's look at the objectives of the hunts:

1. Have fun.
2. Work the most foxii during the season.

If rules are changed to require or prohibit certain type rigs then the hunts won't be as much fun and the # of foxii worked will go down.

How many people would complain if the hunt was limited to a dipole @ 30'? (Ok...my fellow 'Rat AF4PS might like that!)...but what about the guys/gals with the yagi's, phased arrays, beverage antennas, etc...? The 2001 fox hunting season is the driving force behind my 40 meter yagi plans and a receive antenna or two!

For those of us that enjoy the "thrill of the chase", then using the best "weapons" help us get our "fix"!

73  
Paul AJ4Y

--  
Polk County Chapter American Red Cross:  
<http://www.redcross.org/fl/polkcounty>

-----  
Date: Thu, 09 Mar 2000 13:57:21 -0500  
From: arrowhead1@characterlink.net (Ted Danchi)  
To: QRP-L Reflector <qrp-l@Lehigh.EDU>  
Subject: [65310] Oak Hills Classic 2040 for sale  
Message-ID: <38C7F411.D1B65CE4@characterlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

This is a dual band (20 and 40 meters) rig. Its frequency ranges are ~7.000-7.098Mhz and ~14.000-14.098Mhz.  
It was built and modified by Paul Stroud, AA4XX. In stock form it you have the

option of adding a keyer that fits into the rig itself. Paul modified it to include an adjustable AGC circuit. This mod. precludes the use of the internal keyer, but is a pretty nice feature. Paul also added an accessory box which includes a digital frequency display (which is accurate to the nearest 0.1kHz), an SWR/power meter (with a calibration mark for 3W), and a speaker (to supplement the headphone output). All of the connections are built in (by Paul) and I have the necessary cables. It's a VERY nice setup. It is a bit big for backpack type operation. Its dimensions are (without protrusions; HxWxD) ~4 1/8" x 6 1/2" x 7 5/8". The accessory box (which sits on top) is about (H x W x D) 1 7/8" x 6" x 5 1/8". The front panel is quite simple. It includes knobs for frequency selection, AF Gain, RIT, AGC (Paul's mod.), and band selection (two positions). It has one TUNE/OPERATE switch, one PHONES (1/4") jack and a POWER LED. The back panel includes connections for the accessory box: AUDIO, FREQ, 12VDC, and OUT (DC power out for freq. counter). It also has the KEY (1/4"), and ANTENNA (SO-239) connections, a POWER ADJ knob, and a GND post. The rig has a white front and back panel, and black top and bottom covers. The accessory box has a matching paint scheme (it's not exactly the same, but very close), and its connections are DC, FREQ, AUDIO, ANTENNA (BNC), and TRANSMITTER (BNC). It has a knob for SWR/power meter calibration, a FWD (SET)/REV (SWR) and the digital display.

I have the original manual (which includes building instructions for the kit and extra additions for the accessories/mod's.)

The rig is in good condition. It operates just fine, but there are some cosmetic blemishes (scratches, etc.). Hey, it's a QRP rig! QRP'ers actually USE their equipment. :-)

If you're interested, email me DIRECTLY (arrowhead1@characterlink.net). If you respond through the QRP-L reflector, I might miss it!! I'm EXTREMELY interested in any trade/partial-trade that involves either a Norcal 40A (kit or assembled--I don't care) or an Icom IC-2100H 2-meter mobile rig.

--

Michael F. Danchi, KE4TSA  
Violinist  
"Guardian 7"  
Raleigh, NC

-----  
Date: Thu, 9 Mar 2000 14:04:06 -0500 (EST)  
From: QRP <qrp@email.com>  
To: qrp-l@Lehigh.EDU  
Subject: [65311] QRP and Pay Pal  
Message-ID: <386387163.952628646747.JavaMail.root@web12.mail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I've certainly enjoyed all the QRP swapping I've benefited from on this list! However, yesterday I joined Pay Pal and found that we can email money, for all this QRP gear, with perfect safety and speed. Click on this link and you can earn \$10 for both you and I if you join - no obligation, no hidden costs - I think it will be the "wave of the future" for swapping QRP and other stuff:

<https://secure.paypal.com/refer/pal=zeekzilch%40juno.com>

72s

Roger

<http://www.rogerwendell.com>

-----  
FREE! The World's Best Email Address @email.com  
Reserve your name now at <http://www.email.com>

-----  
Date: Thu, 09 Mar 2000 11:08:55 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65312] QRP still? FOX:Crispy critter!  
Message-ID: <38C7F6C7.1037@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, I've just finished the parabolic dish for 40 meters.

It's 10 wavelengths wide with a Parabolic shape factor for 4. The focus is a resonant 40 meter folded dipole.

With no power applied, conducted RF at the feedline somehow reached the antenna and the microwatt feed

reached the 40 meter parabola, errantly focused  
at a power pole that used to exist.

Is that microwatt signal still qrp? Even with no  
rig attached.

I wonder what 5 watts drive would do to the  
fox if aimed?

Seriously : ) if one really had a 40 meter band  
parabolic dish, would the passive conduction of  
blackbody radiation cause significant re-radiation  
of those signals? Would a mislained feedline, near the  
house wiring find itself amplified greatly by the  
high gain possible with a dish like this?

I see a constant RF beam emanating from this antenna  
even when disconnected.

Sure wish I had this for Tuesday's foxhunt. Just hope  
the F layer is strong enough to reflect it back without  
blowing out the ionosphere : )

Hope y'all get the fox tonite!

72/Ed we6w

--

-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
Call Tobor, The 8th Man, to the rescue!

-----  
Date: Thu, 9 Mar 2000 13:03:15 -0600  
From: "Jay Bromley" <w5jay@alltel.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65313] ArkieCon Pre-registration now open !!  
Message-ID: <002501bf89fa\$2069d7e0\$389b66a6@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang,

When Doug said Spring is in the air in California and it reminds him it's  
time for QRP Forums, he wasn't kidding. I've had the pleasure to either

hear or meet most of the speakers for Atlanticon. I don't know how George Heron and the New Jersey Group does it. Have you had a chance to check out the New Jersey QRP Magazine, the QRP Homebrewer? What a great line up and I sure wish I could attend but unfortunately for me it is too close to our own forum ArkieCon on April 8, 2000.

If you can't make it to Atlanticon, I hope you can make it to Fort Smith, Arkansas' ArkieCon. If you are lucky you will be able to attend both. The main reason for posting this is to announce pre-registration for Fort Smith's QRP Forum. There will be an advantage for those who pre-register. Everyone who pre-registers will be given an additional ticket for the QRP Forum prize. Jerry Parker will be handling the pre-registration for ArkieCon. You can e-mail Jerry at [jparker@fix.net](mailto:jparker@fix.net) Jerry will also be making some of his neat QRP badges for this event. All attendees will receive a ticket for the QRP Forum Prize but if you pre-register you will receive two tickets.

Prizes for ArkieCon are: Elecraft K2 with Vern Wright's PW-1 antenna. These will be given away as a pair because the PW-1 is the perfect companion for the K2. On Vern's web site you can see pictures of his K2 briefcase setup. The PW-1 antenna can break down along with the K2 making a highly mobile station. You must be present to Win. See URL below and click on prizes for more information.

Check out the motel accommodations to the link below also. You will not believe the Hamfest special price for rooms. \$42.95/night! With gas prices going up we have to do something, right? This motel is down the street from where the forum is being held. OK, I know what you are thinking... Slumsville! Right? Please check out the photos you will be pleasantly surprised. I can guarantee, there will be hot water, air-conditioning and no dust bunnies under the bed at this site. This is the same motel Chuck Adams and the Rev. George Dobbs stayed in last summer.

We are excited about the upcoming Forum and the facility is brand new. They have just completed a deck with awning that will be perfect for setting up QRP stations, visiting or just hanging out. We are a little out of sorts, so please bear with us on the web site and check often for updates. More to come later... Saturday's after hours activities, etc..... stay tuned.

ArkieCon's main web-page <http://www.alltel.net/~kmike/arkiecon.html>

Suggestions, criticisms, etc. please e-mail Kelsey KK5KU at [kk5ju@amsat.org](mailto:kk5ju@amsat.org)

Hope to see everyone in April!!  
73 de w5jay..

-----  
Date: Thu, 9 Mar 2000 13:13:54 -0600  
From: "Jay Bromley" <w5jay@alltel.net>  
To: <w5jay@alltel.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [65314] Re: ArkieCon Pre-registration now open !!  
Message-ID: <005901bf89fb\$9cdd2b00\$389b66a6@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang It never FAILS, below is the correct e-mail for Kelsey. Thanks and  
sorry-----73 de w5jay..

> ArkieCon's main web-page <http://www.alltel.net/~kmike/arkiecon.html>  
>  
> Suggestions, criticisms, etc. please e-mail Kelsey KK5KU at  
> [kk5ku@amsat.org](mailto:kk5ku@amsat.org)  
>  
>  
> Hope to see everyone in April!!  
> 73 de w5jay..

-----  
Date: Thu, 9 Mar 2000 14:28:39 -0500  
From: "David Maliniak" <dmaliniak@vertical.net>  
To: <qrp-l@lehigh.edu>, <njqrp@njqrp.org>  
Subject: [65315] Update on FS post  
Message-ID: <003a01bf89fd\$adc58f00\$0b01a8c0@vertical.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The 40-9er I posted for sale is sold as is the 38 Special. Likewise, the  
40A is tentatively spoken for.  
The following is still available:

1) NorCal St. Louis Tuner

Tuner may need a bit of TLC but as far as I know, it's working. Case painted red; front and rear panels white. With docs. \$70 shipped CONUS.

2) NorCal 20 transceiver

Works FB; it could maybe use a touch-up alignment. It has a 10-turn tuning pot installed. Case is original unfinished aluminum. Max power output is right around 5W. With docs. \$100 shipped CONUS.

72,

David N2SMH

Glen Rock, NJ

-----  
Date: Thu, 9 Mar 2000 14:31:19 -0500

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>

To: "'w5jay@alltel.net'" <w5jay@alltel.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [65316] RE: ArkieCon Pre-registration now open !!

Message-ID: <125490A005E3D3118C9C00805FC743CC08D370@mail.arrl.org>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

From: Jay Bromley [mailto:w5jay@alltel.net]

> I've had the pleasure to either hear or meet most of  
> the speakers for Atlanticon. I don't know how George  
> Heron and the New Jersey Group does it.

In my case, it took a combination of flattery and begging. I won't say which had the most effect, but I do give in and feed my cat near about every night, if that offers any clues. :-)

> If you can't make it to Atlanticon, . . .

In case you missed it from earlier posts, in addition to the fine lineup of speakers, Atlanticon will feature a special event station, on 40 M and hopefully some other bands. The 40 M station will be the original Tuna Tin 2, with the other bands still tbd (George?). The call used will be W1FB/3/QRP, so those who can't make it, can still participate in Atlanticon. I hope that we can find operators willing to staff the station for the whole day.

I intend on arriving Friday afternoon, helping with the station setup, then



leaving sometime Saturday evening. I noticed that I will be about 15 miles or so from the Delaware border, so I will saunter south a bit, find a cheap hotel, and continue the W1FB/3/QRP operation from the relatively rare state of Delaware on Sunday late AM and afternoon. Look for me on 40 M and 20 M, alternating bands all day. Won't be able to go much past about 6 PM on Sunday, unless the bands are REALLY hopping and the QSO rate stays relatively high. Won't have the big 3-element at 120 feet, so look for signals to be fairly weak at times. If you need DE and think you will be available Sunday, email me, so I can be on the lookout for your call.

73,  
Ed Hare, W1RFI

-----  
Date: Thu, 9 Mar 2000 14:35:32 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'70511.3041@compuserve.com'" <70511.3041@compuserve.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65317] RE: OP: Too close to the FOX?  
Message-ID: <125490A005E3D3118C9C00805FC743CC08D371@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

> I concur wholeheartedly.....especially about the part  
> of giving the hound's call at the beginning and the  
> end, at least at the end.

At the recent W1FB event, when the pileups got large, I gave the "hound" call twice at the start of the QSO and once at the end. I had NO one double up, thinking it was them I was working. Very nicely, I had only one occasion where the pileup got confused and jumped in as one guy was giving his final xmsn. A VERY well behaved lot; I am NOT surprised! :-)

73, Ed Hare, W1RFI

-----Original Message-----  
From: Wilford D. Lindsey [mailto:70511.3041@compuserve.com]  
Sent: Thursday, March 09, 2000 1:22 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: OP: Too close to the FOX?

George:

I concur wholeheartedly.....especially about the part of giving the hound's call at the beginning and the end, at least at the end. The other evening

QRN and HEAVY QSB and SSB QRM made the hunt a nightmare here, and I luckily guessed right and got a pelt at 0232. It may take a bit longer to send the call, but it makes it crystal clear to whom you are referring as Da FOX. Have always done it this way, even in contests, and overall it makes for much better operation.

BTW, GL to you and everyone in tonight's FOX hunt. Here's hoping for much improved propagation tonight.

72,

--Doc Lindsey/K0EVZ

DSBF

PO BOX 6028

Bismarck, ND 58506

K0EVZ@arrl.net

-----  
Date: 9 Mar 00 19:36:18 America/Fort\_Wayne  
From: M Goins <mgoins@usa.net>  
To: qrp-l@Lehigh.EDU  
Subject: [65318] FS - JPS NIR -12  
Message-ID: <20000309193618.2165.qmail@awcst094.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

Like new JPS NIR-12 for sale. The best DPS filters I've ever used. Cost in excess of \$300. Like new. \$175.00 plus shipping. =

Poqet Plus. Includes AC adapter, factory external battery charger, worldport 240 modem, 4 meg memory card, necessary cables. Good copy of the Fujitsu manual. No time to learn right now because of grad school commitments. \$=75 plus shipping. =

mike  
wb5yjx

-----  
Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>  
-----

Date: Thu, 9 Mar 2000 12:38:50 -0500  
From: "Terres Family" <terresfm@ncia.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [65319] Re: NorCal: SMK-1 kits orders top 100 in 24 hours!!!!!!!!!!!!!!  
Message-ID: <001e01bf89ee\$55b7e4c0\$1d82f3ce@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

>Just last month I acquired one of those fancy Edsyn temperature controlled  
>soldering stick stations, <http://www.howardelectronics.com/edsyn/951sx.html>  
>so I think I am OK there

I think the same station is still 74.50 at <http://www.radioshack.com/>  
click on "Web Specials"  
Usual disclaimers  
jerry aa1of

-----  
Date: Thu, 9 Mar 2000 14:38:24 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: "'we6w@qsl.net'" <we6w@qsl.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65320] RE: QST give QRP a push.  
Message-ID: <125490A005E3D3118C9C00805FC743CC08D372@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

> Gang, I worked a guy last night. It was his  
> First-ever QRP attempt. He was really stoked!  
> He had read some articles in QST and decided  
> to try it with his KD-570d.

Great!

You know, I wonder if some of the QRP 'tests and operating events couldn't have a "First-Ever-QRP" category? Just some thought for those who sponsor the 'tests.

73, Ed, W1RFI

-----Original Message-----

From: Ed Loranger [mailto:we6w@qsl.net]  
Sent: Thursday, March 09, 2000 12:42 PM  
To: Low Power Amateur Radio Discussion  
Subject: QST give QRP a push.

Gang, I worked a guy last night. It was his  
First-ever QRP attempt. He was really stoked!  
He had read some articles in QST and decided  
to try it with his KD-570d.

A very satisfying qso with a newcomer to this  
very exciting club!

72 to all. -Ed we6w

--

-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
Call Tobor, The 8th Man, to the rescue!

-----

Date: 09 Mar 2000 14:38:57 -0500  
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>  
To: qrp-l;;  
Subject: [65321] Prototyping with surface mount parts  
Message-ID: <2000Mar09.143857-0500@[130.113.234.7]>

Eagle-Eyed surface-mount Homebrewing gang,

-Don't have Gerber plotters, CirCad or a homebrew  
printed circuit fab? But you wann try surface mount  
homebrew. Yes it can be done on printed circuit material.

I carve up "islands" on the PCB material by hand,  
with a knife. I use homebrew knives made from  
old hacksaw blades, and have a fine wetstone handy  
to keep 'em razor sharp. Carving the soft copper isn't  
too bad, but the glass-epoxy dulls a sharp edge.

So you end up with an island, surrounded  
by an insulating moat of just glass-epoxy. The moat  
must be carved out narrow enough that surface mount  
parts can straddle from island to ground (or island  
to island).

You can mount regular parts with leads using  
the same technique.

I've not tried surface mount chips this way -  
have only used regular 0.1" lead spacing parts. I

drill the 1/32" holes before carving and make islands for each ungrounded chip pin.

Guess you'd call this "thousand island" construction ;-)

You'd be surprised at how quickly this technique can be done - my experiments are built and smoked - all in one night!

-Glen VE3DNL leinwebe@mcmaster.ca

-----  
Date: Thu, 9 Mar 2000 12:56:13 -0700 (MST)  
From: af852@rgfn.epcc.edu (William R Colbert)  
To: qrp-1@lehigh.edu  
Subject: [65322] CW Crystals  
Message-ID: <200003091956.MAA12795@rgfn.epcc.edu>

Some months ago someone posted that John had passed away and that his companion was trying to settle the estate/accounts, etc. Not sure if she ever got that accomplished as I have seen nothing else. Sandy, W5TVW formerly of this list and currently on the glowbugs/boatanchor list is looking for info to contact John's survivors about some matters concerning the business. Does someone on here have contact info? I am sure he would appreciate the info - I thought I had kept contact info but guess not. Thanks.

His E-mail is: ebj@i-55.com ("Sandy W5TVW")

And his comments were to the effect that perhaps he and maybe another or two on that list may be interested in continuing the business, so he is looking for phone number/name/snail mail or E-mail contact point - if someone is able to assist.

73

Ray

--

"The more I see of the representatives of the people, the more I admire my dogs." letter from Count d'Orsay to John Foster 1850  
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
El Paso, (FAR WEST) TEXAS

-----  
Date: Thu, 9 Mar 2000 11:55:18 -0800  
From: "John Moriarity" <k6qq@hdo.net>  
To: <w6toy@erols.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [65323] Re: Prototyping with SMD components  
Message-ID: <00bc01bf8a02\$82c85d00\$ef424cd1@k6qq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've done SMD prototyping with an X-acto (tm) knife and a soldering iron. Make your layout on the pcb material with a sharp pencil and a metal rule. Score the copper deeply with the knife (I always use a #11 blade - a straight one with a fine point that breaks frequently!). Put a hot tip in your soldering iron (I use an 800 deg. tip in my Weller WTCPN). Using just a little solder, as if you were tinning the board, heat an area of the foil that you want to \*remove\*. Pretty soon, you'll be able to pick up a corner of that area with your knife. Grab it with a long nose pliers (with serrated jaws) and carefully peel the copper from the board. Voila! (I spelled it right!). When you're done with that, carefully tin the areas where parts will be soldered. (You don't want them to aome off too!)

Practice on some scrap until you get the feel of it. I've prototyped circuits up to 1 GHz using this technique, even making microstrip lines of different impedances (using a vernier caliper to score the parallel lines). I wouldn't try doing anything big this way, but a stage or two can be done easily. Learn to make PCBs at home.

Use silver bearing solder, to avoid leaching the plating from some components. You'll need a supply of toothpicks to hold things down at times. A little container of liquid flux is handy, because you'll often solder the first "lead" of a component by transferring solder from the tip of your iron (using your other hand to hold the part in place). With experience you can even work with parts down to the 0402 (yuk!) size.

Don't worry about solder bridges when putting down a tiny IC. Tack one corner pin down, and make sure it is aligned properly. When it is, solder all pins, and use Solder Wick (tm) to remove the excess; it works! Try not to have too much excess.

To remove parts, you can use the Solder Wick to get as much off of the connection as you can, and then use your X-acto knife to separate the part from the pad. This is trickier. Most of the parts are cheap enough that you shouldn't worry

about losing a few. If you have a low velocity heat gun, you can fabricate a reducer to give you a small stream of hot air, which can be useful for removing multi-leaded parts. Practice on something you don't care about, like an old computer board.

Work fast! These small parts can't dissipate heat as easily as conventional ones.

Good luck. I'm retired now, and don't have to work with these things every day anymore ;-)

72/3/4,

John, K6QQ

Alturas, CA, at the corner of 299 & 395.

-----  
Date: 9 Mar 00 20:04:55 America/Fort\_Wayne  
From: M Goins <mgoins@usa.net>  
To: qrp-1@Lehigh.EDU  
Subject: [65324] FS - Poqet Plus  
Message-ID: <20000309200455.2481.qmail@aw161.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

Please excuse the second posting. I meant to include the Poqet in the earlier posting's subject line. Getting old, I guess.

Poqet Plus. Includes AC adapter, factory external battery charger, worldport 240 modem, 4 meg memory card, necessary cables. Good copy of the Fujitsu manual. No time to learn right now because of grad school commitments. \$=75 plus shipping. =

mike  
wb5yjx  
S0C54

-----

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Thu, 9 Mar 2000 14:19:02 -0600  
From: "Dan Wanchic" <wa8vzq@cloudnet.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [65325] For trade - QRP project waiting to happen  
Message-ID: <001001bf8a04\$f388e300\$def1ddcc@MBDJW493.agl.faa.gov>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

Itching to build something ? This is a QRP project just waiting to happen.  
Unfortunately they have been waiting in my junk box for too long. Since winter  
in Minnesota is rapidly coming to closure these need to get moved out to make  
room for this years acquisitions of new radio junk ;-))

I have three complete SSB transceive IF assemblies that each include a Collins  
mechanical filter for trade. These are from 70's era commercial grade equipment  
and they can generate and detect AM, SSB, and CW. Set up as a dual conversion  
system; first IF is approx 1.5 MHz, second IF is 455 kHz and also includes an LC  
filter for AM operation. The PC board has traces that support installation of a  
second mechanical filter. These boards serve both transmit and receive  
functions. The manufacturer data says that the carrier suppression and opposite  
sideband rejection are both 50 dB.

Features on the PC board:

Balanced diode mixer to for conversion from 1.5 MHz to 455 kHz  
Mechanical filter - 2.9 kHz bandwidth  
U1 first 455 kHz IF amp CA-3028  
U2 second 455 kHz IF amp CA-3028  
U3 third 455 kHz IF amp/product detector CA-3028  
U4 first AGC amplifier CA-3028  
U5 Transmit IF/balanced modulator MC-1596  
Plus 20 some transistors

Sophisticated AGC system that has a dual AGC delay time  
AGC drives IF amp and provides drive to RF amp  
S-meter driver circuit  
Manual RF gain control input  
Transmit PPC (ALC)  
Audio amp  
T/R relay driver circuit  
Local oscillator buffer



+12 volt operation

Circuit board approximately 5 1/2 by 9 inches with two 22 pin edge connectors. Used chassis edge connectors included. Also included crystals for BF0- LSB & USB, 2nd local osc for 1.5 MHz to 455 kHz conversion. Plus schematic diagram, pictorial (xray) diagram and other documentation.

Want to trade them. Looking for a Poqet PC Plus, an unbuilt 20 meter SW+, any SWL GM series especially 17 & 20 or 30 meters, any DSW or open to what you have to offer. Would rather trade but will sell for \$70 each only after I have considered trades. All inquiries will be answered - technical questions welcome.

Dan WA8VZQ, St. Cloud, MN

wa8vzq@cloudnet.com

-----  
Date: Thu, 9 Mar 2000 15:32:04 EST  
From: RangerSF5@aol.com  
To: qrp-l@lehigh.edu  
Subject: [65326] Electrical question. Please post answer to list  
Message-ID: <a2.1a79042.25f96444@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi gang,  
I wanted this posted to the list since it's related to safety.  
Last night I grounded my phone patch to the VFO, from there to the 901-DM and from there to the cold water pipe.  
I cleaned the pipe good and installed a clamp.  
When I went to hook up the # 8 GA ground wire, I got zapped real good.  
Does this mean my outlet is wired wrong?  
I use three prongs on everything.  
Now today I had to leave and it looked like stormes were on the way so I disconnected the coax from the back of the tuner.  
First the 20-M antenna. When I went to disconnect the 40-M (in circuit with the band switch) antenna everything was fine untill I touched the center conductor and got a real good jolt.  
How could this be?  
I'm thinking maybe the high voltage caps in the final stage discharged into

me as I was grounded?  
The RS thingie tells me that my wall outlet is wired OK.  
However i'm not happy because this shouldn't happed.  
Shouldn't this have gone into the # \*8 ground wire.  
On the air the tuner and rig work fine.  
Any experts out there with some suggestions?  
Bob  
WA2HOQrp <tm>

-----  
Date: Thu, 09 Mar 2000 14:45:02 -0600  
From: "George T. Baker" <w5yr@att.net>  
To: RangerSF5@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65327] Re: Electrical question.Please post answer to list  
Message-ID: <38C80D4E.F08820D5@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

First thing, Bob, is to get an a-c voltmeter and make voltage measurements between everything in the shack and everything else. And with respect to the power outlet safety ground connection. Also check your antenna feedlines with respect to the power safety ground, etc.

This should give you a much better picture of what is hot with respect to what - besides, watching a meter is much easier than going "OUCH!"

72/73, George  
Fairview, TX 30 mi NE Dallas in Collin county  
Amateur Radio W5YR, in the 54th year and it just keeps getting better!  
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

RangerSF5@aol.com wrote:

> Any experts out there with some suggestions?  
> Bob  
> WA2HOQrp <tm>

-

-----  
Date: Thu, 9 Mar 2000 20:59:34 -0000  
From: "Walt Amos" <k8cv@worldspy.net>  
To: "Qrp-l Posts" <qrp-l@lehigh.edu>

Subject: [65328] Oh, oh, where is the TRUST .....

Message-ID: <009b01bf8a0a\$6271e280\$6f8748a6@walthk8cv>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

What next? FOX POLICE ? As you huddle over your SMK-1 using a set of old nicads from that discarded laptop at work, with a candle for light and you hear a scratching sound on the window, is that a tree branch or the FOX POLICE !! No, no, it is just the fine new antenna you just put up under the aluminum siding so the neighbors would not see it and get the extra gain from an outside antenna instead of the old FOX KILLER down in the basement, oh that was a good antenna, many a fox got a way on that one! :-) But wait, there is someone at the door, you stagger over in the dark , no lights since you are PURE QRP and the FOX POLICE just might be watching. But no, it is just the neighbor again complaining about the RFI to his digital cable! So it's back to the rig and see just how far that crystal will RUBBER so you can be PURE QRP and not call on frequency and again alert the FOX POLICE . Wow, you sure can get an RF burn from 200 MW ..... ;-)

Soon ..... 2001 ..... fox hunts begin !! :-) Mitt  
POLICE this time !!

Walt K8CV Royal Oak, Michigan " May the SOC be with you! "

-----

Date: Thu, 9 Mar 2000 15:56:28 -0500

From: w2xn@juno.com

To: qrp-l@lehigh.edu

Subject: [65329] Got a Virus

Message-ID: <20000309.155751.-722561.1.w2xn@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Folks,

I just got my email and most of it was from QRP-L. One of the emails carried a virus which my virus checker found and I eliminated the file. I think it called it "Backdoor" ??? It told me to delete the file:

~DF3DBF.TMP

which needlessly to say, I did immediately. I subsequently ran the virus

checker program on my entire hard drive to make sure I wasn't going to pass it on to anyone else before I sent this email.

If your system works like most computers, you might want to see if you have that file and delete it immediately, or run your virus checker on your system to see if you have picked up a virus a virus.

fred w2xn

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 9 Mar 2000 15:57:35 -0500  
From: hamjoel@juno.com  
To: qrp-l@lehigh.edu  
Subject: [65330] A "Real QRP Station"  
Message-ID: <20000309.155738.-221263.0.hamjoel@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

may high y'all:

seems this topic gets kicked around a lot and I haven't kicked it yet,  
so heah you go...

First..... u need a transmitter... 5 watts output or less...  
..... or adjustable to 5 watts or less output  
second.... u need a receiver... don't hafta be 5 watts or less .....  
..... don't even hafta receive good  
third..... u need a microphone or cw key or keyer  
... or what's appropriate for the mode u is gonna use  
Fourth ..... u need an antenna  
..... don't hafta be a good ant....  
..... can be indoors or outside or mobile  
..... can be high or low  
fifth..... u can buy or build all this

A REAL QRP STATION shur nuff...

it's real exciting .... some say even more exciting iffin u build some  
or all of ur station u shelf....

To those who have 700 ft towers with stacked 4 element beams for each  
band I say, bless u... u gonna startle the world with 5 watts or less...

To those of us who got wires in the attic or on the floor or anything  
in-between... an't it fun and amazing what can be done with what we  
got...

With a power limit of 5 watts output a qrp op can improve their station setup in many ways... and when u get it like u want... it'll probably be time to qsy to another qth... :-)

Be Real... Be qrp.... and u will be "Real QRP" it's just that simple... rumor has it that my k2 has a serial number of 877... shame I missed 807... hee hee

God Bless

joel ke1la

in maine watching the sneaux melt

Joel KE1LA

In Maine

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 09 Mar 2000 19:49:52 +0000  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: Alan Price <career1@home.com>  
Cc: QRP-L <QRP-L@lehigh.edu>  
Subject: [65331] Re: [Elecraft] 2 Watt ?  
Message-ID: <38C80060.6DD8@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Alan Price wrote:

> I wonder if a 2 watt, 50 ohm carbon resistor would serve as a second  
> dummy load. I know it will burn after a short period, but so what.

I would suggest using a lamp for a dummy load on the extra antenna jack. Obtaining an exact 50 Ohm resistive impedance is not so very important here. It doesn't even need to be close. 25 - 100 Ohm would be more than close enough, I figure. However, it would be obvious if one is mistakenly feeding RF power to the lamp instead of to a real antenna and it would also offer a nice visual effect to demonstrate to visitors how little power is sufficient to get around the world on radio.

When picking a suitable lamp one needs to realize that metal lamp wire has a significant positive temperature coefficient. So a 100 W lamp for 115 V will be lower in resistance than  $115 \times 115 / 100 \text{ Ohm} = 132 \text{ Ohm}$  when it isn't dissipating the 100 W it's made for. A literature search may be able to tell just how much lower, or else somebody on the list will know

; -)

73,

--

Arjen Raateland  
oh2zaz

SAS Support  
Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

-----

Date: Thu, 9 Mar 2000 21:06:32 -0000  
From: "Andy GM0NWI" <Gm0nwi@tesco.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [65332] HW8 Meter Needed..??  
Message-ID: <002701bf8a0b\$59c02060\$7c4c8cd4@q1n3l2>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey Guy`s....

Here I am again looking for that "devine intervention" that y'all seem to provide for me when the "searchin" get`s touch...

Just spent the last few day`s gettin` the beloved HW8 rig ready for a complete over haul (a long going saga if you`ve been followin` my "plea" postin`s)....

The story is that I have been for a while now "ressurectin`" an old HW8 that I aquired some time back, it`s coming along "fine `n` dandy", as they say, I`ve had a fantastic amount of help from a great number of you guy`s here on the list, and I thank you all again so much, without you I would`nt be able to do this challenge....

I am by nature physically handicapped, confined to a wheelchair for mobility, and thus find it hard to get to all the "flea market`s" for those harder to find "bargains" as regard componants etc...

I am at the moment in need of a replacement "RELATIVE POWER/signal meter" for my HW8, as I have now found to my dismay that the original one is not working at all...(any idea's on the cause guy's), so will need to be looking for a working one to get the challenge back on track..

I've just looked in my HW8 Manual and the part number SEEMS to be indicated as 407-167..... this can be found on PAGE 47 of the manual, it is causing me GREAT GRIEF here guy's, as you can imagine that the land mass size of both you guy's in the US and you guy's in VE-land is much more larger than compared to us here in the UK, so this has lend itself to the problem that there is an EVEN GREATER shortage of spares for these "QRP Gem's" to be had, this coupled with my physical disposition makes it even more of an arduas task...

I've put out a few postin's in the last few day's but nothin' solid to go on yet, has been found... really need help on this one...

So..if there is anything that YOU think you might be able to help me with on this one, please can you e-mail me direct to the address below.... I will as always, offer, to pay for any item's found and there subsequent shipping etc...

Thanks again for the bandwidth guy's..... SO MUCH appreciated by this here individual, I can tell ya, more than you can imagine, thanks for the patience too..... there no doubt WILL be more "pleas" to come..

72's de Andy GMONWI gm0nwi@tesco.net  
Long Live QRP...!!

G-QRP No.9576

-----  
Date: 9 Mar 00 21:37:07 America/Fort\_Wayne  
From: M Goins <mgoins@usa.net>  
To: qrp-1@Lehigh.EDU  
Subject: [65333] Update: FS. NIR -12 and Poqet Plus  
Message-ID: <20000309213707.25717.qmail@aw163.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

The Poqet Plus is sold. =

The NIR-12 is still available tonight. Tomorrow it goes to the usual ham classifieds. Wanted to offer it to the group first.

Mike  
wb5yjx

-----  
Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Thu, 09 Mar 2000 17:28:18 EST  
From: Dean W Manley <kh6b@juno.com>  
To: qrp-1@Lehigh.Edu  
Cc: jlarsen@palmtop.com, kh6b@juno.com  
Subject: [65334] AL7FS in Hawaii  
Message-ID: <20000309.122919.5391.1.kh6b@juno.com>

Hi fellow QRPers,

Jim AL7FS and family attended our DAILY get together here in Hilo at the Jack in the Box restaurant this morning. I gave him the info on ordering the SMK-1. He wasn't aware of the kit because of being off qrp-1 during the vacation trip.

Jim urged me to share a little "trick" when the ZM-2 tuner won't tune. A case in point: my temporary 40m dipole made with Radio Shack speaker wire, with same wire for feedline attempts to tune with dial at 12 (1 to 12 scale). Solution: put a small inductor in series with the ZM-2 coil secondary. 0.5 to 1.5 uH is probably suitable. This is accomplished very easy by connecting the inductor from the right-hand black terminal to the adjacent panel mounting screw. Put the "Ground" switch in the "Off" position, and this puts the small coil in series with the feed line connected to the coaxial antenna connector. With the coil, the right-hand control tunes to "8" instead of "12", with the complete 1:1 match. This is not new, as I seen it some time ago in the Wireless Institute of Australia's publication Amateur Radio.

Hope this helps.

Dean KH6B  
Hilo Hawaii



-----  
Date: Thu, 09 Mar 2000 17:36:51 -0500  
From: tom palmer <n1tp@worldnet.att.net>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [65335] Too Close to the Fox?  
Message-ID: <38C82782.51C3C9E1@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Two relevant points:

1. The Fox needs to hear your call sign only once during the entire 2 hour hunt.
2. The primary reason the Fox has difficulty picking one call sign out of the pack of Hounds is that other Hounds are calling.  
It is best if Hounds do not call the Fox every time the Fox requests a  
"Hounds' call." One well placed rifle shot when the Fox's signal is relatively  
strong is preferable to "firing away" every time one hears "TU" or "QRZ"  
Ron, KI0II, among others, is a "Master" at bagging his pelts with one well placed call to the Fox. Ron often sits back, waits a while, fires  
one shot and - bang - bags his pelt. He's like a "sniper" - 1 shot = one pelt.

Tom, N1TP  
Naples, FL  
QRP-L # 1317

-----  
Date: Thu, 09 Mar 2000 15:47:09 -0700  
From: Bob Hightower <nk7m@extremezone.com>  
To: qrp-l@lehigh.edu

Subject: [65336] Names  
Message-ID: <200003092245.PAA06386@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I've seen this on just about every 'FOX' list, and finally had to say something. WS4S is Conard Murray, not Conrad. I heard him the other night sending his name several times in response to agn, and he sent it correctly each time. Still comes out 'Conrad'.

Might be a bit picky, but maybe we can get it right some time in the future?

Bob Hightower NK7M  
Chandler, AZ  
SOC #20

<http://www.extremezone.com/~nk7m>

-----  
Date: Thu, 9 Mar 2000 17:18:00 -0600  
From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>  
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [65337] First Ever QRP  
Message-ID: <0974781F4FC8D211A24600902727E806011B1FEF@saturn.rose.cc.ok.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

All,

I like Ed's idea.

Hal - WB9VMY

-----  
Date: Thu, 09 Mar 2000 18:22:10 -0500  
From: Rick Sealey <rsealey@InfoAve.Net>  
To: ki6ds@hotmail.com  
Cc: qrp-1@lehigh.edu  
Subject: [65338] Re: NorCal: SMK-1 Prototyping  
Message-ID: <4.1.20000309181947.01f165b0@mail.infoave.net>

MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

AMAZING!!

At 10:06 AM 03/09/2000 -0800, you wrote:

>----- SNIP -----  
>  
>The layout was finished and checked on Sunday evening, and was emailed as a  
>Gerber file to AP Circuits in Alberta, Canada where we were able to get 2  
>prototype boards made and delivered to Dave by Wednesday. Dave ordered  
>parts from Mouser and Digikey on Monday to prototype with, and started  
>building Thursday night. He finished the rig, and had a QSO with Ed  
>Loranger I believe on Saturday, or maybe it was Friday night. 7 days from  
>conception to working prototype.  
>  
>----- SNIP -----  
>  
>72, Doug

-----  
Date: Thu, 9 Mar 2000 16:21:25 -0700  
From: Bob Nielsen <nielsen@primenet.com>  
To: Gary Newberry <Gdn1@rocketmail.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65339] Re: RS Freq. Counter on Sale, Comments ?  
Message-ID: <20000309162125.B616@bob.localnet>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Gary,

I have had a 22-305, which is probably quite similar, for a couple years and am quite happy with it. As I recall, it was \$99.95 at that time.

Bob, N7XY

On Wed, Mar 08, 2000 at 11:16:23PM -0800, Gary Newberry wrote:  
> Radio Shack has their 1 MHz - 1.3 GHz frequency counter  
> (#22-306) on sale for \$59.00 (Reg = \$79.00) anyone have or  
> use one of these counters ? I'm thinking of picking one up,

> comments welcome.  
>  
> 72/73 Gary K8IQ  
> -----  
> Do You Yahoo!?  
> Talk to your friends online with Yahoo! Messenger.  
> <http://im.yahoo.com>

--  
Bob Nielsen, N7XY (RN2)                      nielsen@primenet.com  
Tucson, AZ DM42nh    QRP-L #1985    SOC #77    <http://www.primenet.com/~nielsen>

-----  
Date: Thu, 9 Mar 2000 17:37:37 -0600  
From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [65340] SMK-1  
Message-ID: <0974781F4FC8D211A24600902727E806011B1FF1@saturn.rose.cc.ok.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"

For awhile I thought those guys were supper rf design engineers. One week from conception to finnnished product. Now they tell me that it was only a SMT remake of an already proven product. These guys are only real people after all and here I was getting ready to fall down and worship them.

Keep up the good work guys. My wife says I have to wait until April to order one. I got a new digital bird watt meter for my birthday so I can't spend anymore money on ham stuff this month.

Hal - WB9VMY

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Date: Thu, 9 Mar 2000 18:42:45 -0500  
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [65341] RE: SMK-1  
Message-ID: <125490A005E3D3118C9C00805FC743CC08D37F@mail.arrl.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"

Hi, Hal,

No, they did a GREAT job; getting all the bugs out of the layout, building and testing a prototype in a week of part-time work is a good accomplishment.

Besides, it illustrates the basic point that working with surface-mount parts is NOT the daunting challenge some hams think it is. You obviously agree. :-)

73,  
Ed Hare, W1RFI

-----Original Message-----

From: Deitz, Harold L. [mailto:hdeitz@ms.rose.cc.ok.us]  
Sent: Thursday, March 09, 2000 6:38 PM  
To: Low Power Amateur Radio Discussion  
Subject: SMK-1

For awhile I thought those guys were supper rf design engineers. One week from conception to finnnished product. Now they tell me that it was only a SMT remake of an already proven product. These guys are only real people after all and here I was getting ready to fall down and worship them.

Keep up the good work guys. My wife says I have to wait until April to order one. I got a new digital bird watt meter for my birthday so I can't spend anymore money on ham stuff this month.

Hal - WB9VMY

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Date: Thu, 9 Mar 2000 17:45:32 -0600  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [65342] RE: Center insulator ??  
Message-ID: <01BF89EF.44E96A00.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Scott Hotchkiss [SMTP:w4pj@bellsouth.net]  
I understand that \*\*\* SOME \*\*\* PVC is a better dielectric than others.  
Put a sample in the microwave and cook on high for a minute.

I like to put mine in a bowl with some saurkraut on it. mmmmm ... ;^)

Seriously, I think the microwave test is a good one, though I've heard some

guys say they don't think it's that valuable.

But on PVC--IMHO, if you're using it for an insulator and not a coil form you probably don't need to worry about losses. With a coil, you're concentrating the field and probably have high losses and lower Q. But as an antenna center insulator, I suspect the loss is negligible.

72,

Nick, WA5BDU  
SOC #36

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End of QRP-L Digest 1755  
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